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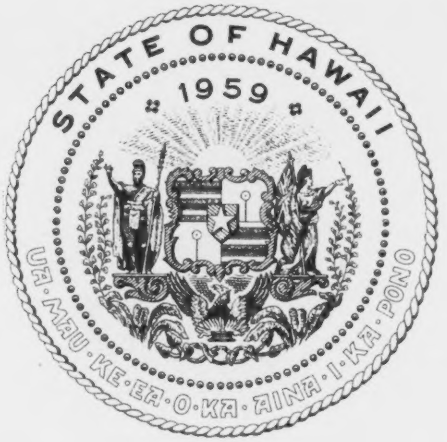

THE STATE OF HAWAII
DATA BOOK

1981

A STATISTICAL ABSTRACT

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
NOVEMBER 1981

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This report was prepared by Robert C. Schmitt, State Statistician, with the assistance of Lynn Y. S. Zane, Roy H. Tsumoto, and Sharon Nishi. The camera-ready copy was typed and proofread by Irene S. Fujimori, Judy F. Noda, Helen T. Nagafuchi, and Cora Choy. All are members of the DPED's Research and Economic Analysis Division, headed by Dr. Richard Y. P. Joun. The maps were drawn by Stewart A. Wastell, illustrator in the DPED's Planning Division. Editing and printing arrangements were handled by the DPED's Information Office.

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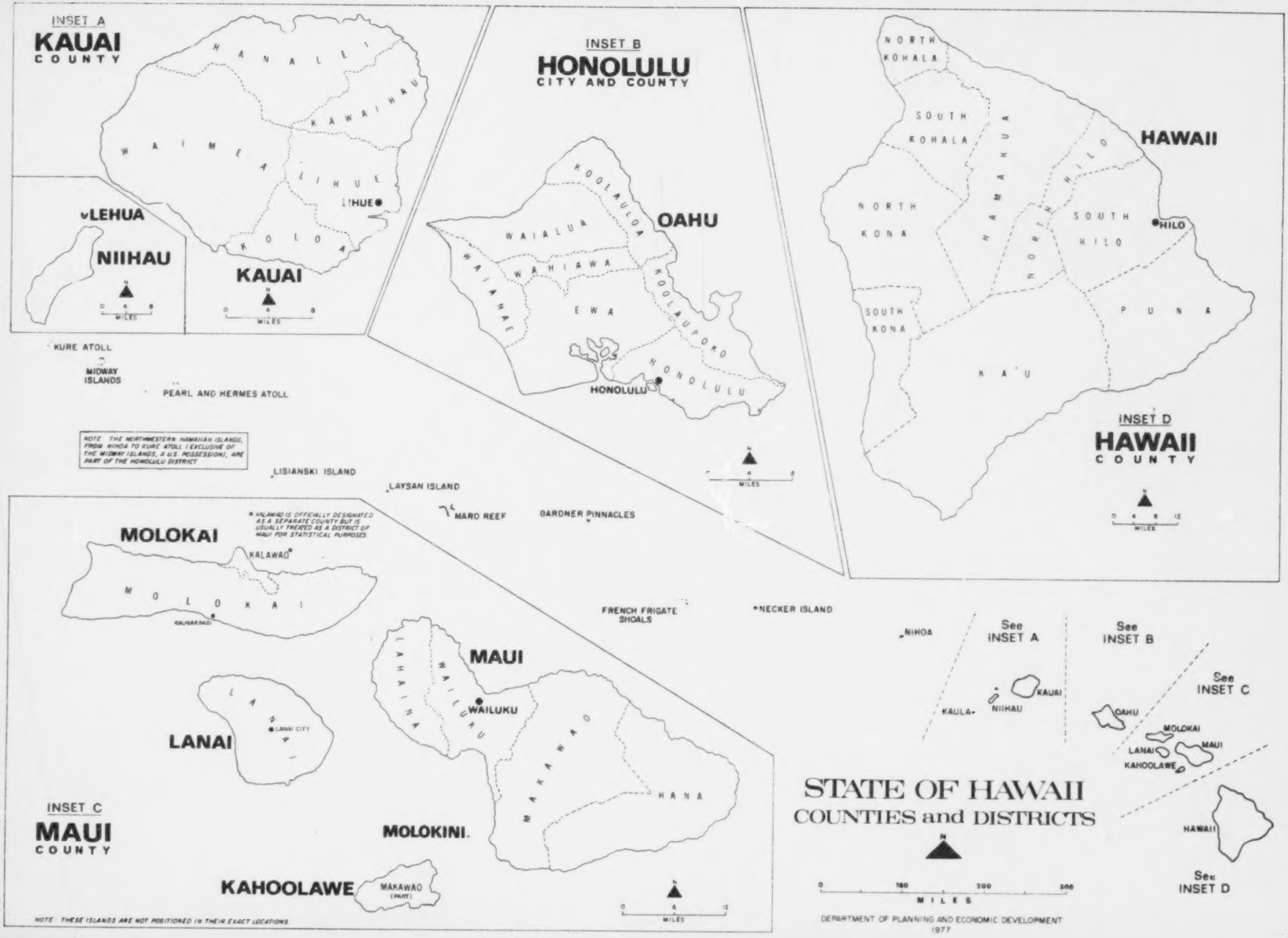
FOREWORD

By George R. Ariyoshi
Governor, State of Hawaii

Accurate, timely and substantial information is essential to sound decision-making. The State of Hawaii has long recognized that orderly State growth and planned prosperity require a continuing, efficient organization of statistical data and other information into forms which are easily used and readily available to all who need them. This State of Hawaii Data Book 1981 is the latest example of the State Administration's constant effort to provide and improve this important service to Hawaii's citizens.

The Data Book is invaluable for Government administrators. It is vital to all agencies, companies, organizations and individuals who carry out a great variety of forms of research in the Islands and overseas. It is very useful to other citizens who have only an occasional need for accurate statistics. It is a book which, thanks to the professionalism of its compilers, can be depended upon, and upon which thousands do depend. And it is only one--although perhaps the best one--of a large number of excellent data sources which Hawaii makes available.

Through such reference works, Hawaii is able to go about its myriad tasks with confidence that its information base is sound. This State of Hawaii Data Book 1981 is one of many proofs we have that our people know what they are doing, and where they are going, and are reasonably certain they can achieve their goals.



STATE OF HAWAII
COUNTIES and DISTRICTS

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
1977

NOTE: THE NORTHWESTERN HAWAIIAN ISLANDS, FROM NIHOA TO KURE ATOLL (EXCLUSIVE OF THE MIDWAY ISLANDS, A U.S. POSSESSION), ARE PART OF THE HONOLULU DISTRICT

* KALAWAO IS OFFICIALLY DESIGNATED AS A SEPARATE COUNTY BUT IS USUALLY TREATED AS A DISTRICT OF MAUI FOR STATISTICAL PURPOSES

NOTE: THESE ISLANDS ARE NOT POSITIONED IN THEIR EXACT LOCATIONS

INSET A
KAUAI COUNTY
HANALEI
KAWAIHAU
WAIMEA
LIHUE
KOLOA
LIHUE
LEHUA
NIIHAU
KAUAI
0 4 8 MILES
INSET B
HONOLULU CITY AND COUNTY
OAHU
KOOLAULOA
WAIALUA
WAIANAE
WAHIAWA
EWA
KOOLAUPOKO
HONOLULU
HONOLULU
0 4 8 MILES
INSET D
HAWAII COUNTY
HAWAII
NORTH KOHALA
SOUTH KOHALA
HAMAKUA
NORTH HILO
SOUTH HILO
HILO
NORTH KONA
SOUTH KONA
KA'U
PUNA
0 4 8 12 MILES
KURE ATOLL
MIDWAY ISLANDS
PEARL AND HERMES ATOLL
LISIANSKI ISLAND
LAYSAN ISLAND
MARO REEF
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER ISLAND
NIHOA
See INSET A
See INSET B
See INSET C
See INSET D
KAULA
NIIHAU
KAUAI
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
N
0 100 200 300 MILES
INSET C
MAUI COUNTY
MOLOKAI
KALAWAO
MOLOKAI
KAUNAKAKAI
LANAI
LANAI CITY
MAUI
LAHAINA
WAILUKU
WAILUKU
MAKAWAO
HANA
MOLOKINI
KAHOOLAWE
MAKAWAO (PART)
0 6 12 MILES

INTRODUCTION

By Hideto Kono, Director
Department of Planning and Economic Development

The State of Hawaii Data Book: A Statistical Abstract is intended to serve as the standard official summary of statistics on the social, economic, and political organization of the State. Like its long-established counterpart, the Statistical Abstract of the United States, it may be used as either a convenient volume of statistical reference or a guide to other statistical publications and sources.

The present volume, containing statistics available in the summer of 1981, is the fifteenth such abstract to be published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, and annually beginning in 1970. All are now out of print, but copies can be seen in many high school, university, and public libraries in Hawaii.

The Data Book closely follows the organization and format of the U.S. Abstract, in order to facilitate comparison of Hawaii data with corresponding series for the nation and other jurisdictions.

Emphasis in the Data Book is given to the most recent available State data. Historical statistics and information for counties, islands, urban places, and smaller areas receive more limited attention. The publications cited as sources in the introductions to the various sections or at the end of each table usually contain additional statistical detail and a more comprehensive discussion of relevant definitions and concepts than can be presented here. Persons interested in more extensive information should consult these sources or write to the agencies responsible for them.

Many Federal, State, County and private organizations cooperated in the preparation of this report. These agencies are credited in the source references to the tables to which they contributed. Their assistance is gratefully acknowledged.

GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Bureau of the Census in its annual publication, Statistical Abstract of the United States, and described in Bureau of the Census Manual of Tabular Presentation, published by the Bureau in 1950. These principles have been accepted by the Department of Planning and Economic Development for use in its publications and recommended to all other State agencies for official use.

Headnotes immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

Unit indicators ("In thousands," "In millions of dollars," etc.) are usually given as the first element of the headnote. In tables where several units are used, the unit indicators are generally given in the stub or in the column headings.

Footnotes below the bottom rule of tables give information relating to specific items or figures within the table.

Parallel vertical rules are used to the right of a total column to indicate --

(1) that the components which follow add to the total;
(2) in the case of derived figures, that the underlying data are additive to their total.

The following symbols, used in the tables throughout this book, are explained in condensed form in footnotes to the tables where they appear:

-	Represents zero or rounds to less than half the unit of measurement shown.
D	Figure withheld to avoid disclosure of information pertaining to a specific organization or individual.
NA	Data not enumerated, tabulated, or otherwise available separately.
...	Same as NA; used in tables in which a large number of cells lack data.

In many tables, details will not add to the totals shown because of rounding.

Median: The value which divides the distribution into two equal parts--one-half the cases falling below this value and one-half exceeding it.

Geographic coverage should be understood as Statewide, unless otherwise indicated in the table title, headnote, boxhead, or stub. All annual statistics should be understood as referring to calendar years unless otherwise indicated.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.			to	Metric	Metric			to	U.S.
Length									
Inches	x	25.4	=	millimeters	millimeters	x	0.039	=	inches
Feet	x	0.305	=	meters	meters	x	3.281	=	feet
Statute miles	x	1.609	=	kilometers	kilometers	x	0.621	=	miles
Area									
Sq. feet	x	0.093	=	sq. meters	sq. meters	x	10.764	=	sq. feet
Acres	x	0.405	=	hectares	hectares	x	2.471	=	acres
Sq. miles	x	2.589	=	sq. kilometers	sq. kilometers	x	0.386	=	sq. miles
Volume and capacity									
Cubic feet	x	0.028	=	cu. meters	cu. meters	x	35.315	=	cu. feet
Cubic yards	x	0.765	=	cu. meters	cu. meters	x	1.308	=	cu. yards
Fluid ounces	x	29.573	=	milliters	milliters	x	0.034	=	fluid ounces
Quarts (liq.)	x	0.946	=	liters	liters	x	1.057	=	quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	liters	x	0.264	=	gallons (liq.)
Mass									
Ounces (avdp.)	x	28.350	=	grams	grams	x	0.035	=	ounces (avdp.)
Pounds (avdp.)	x	0.454	=	kilograms	kilograms	x	2.205	=	pounds (avdp.)
Hundredweight	x	45.359	=	kilograms	kilograms	x	0.022	=	hundredweight
Short tons	x	0.907	=	metric tons	metric tons	x	1.102	=	short tons

Miscellaneous conversions
1 statute mile = 5,280 ft. = 1,760 yards
1 acre = 43,560 sq. feet
1 square mile = 640 acres
1 short ton = 2,000 pounds

Continued on next page.

UNITED STATES AND METRIC WEIGHTS AND MEASURES -- Con.

Fahrenheit	to	Celsius	Celsius	to	Fahrenheit
Temperature					
100 °F		37.8 °C	40 °C		104.0 °F
90		32.2	35		95.0
80		26.7	30		86.0
70		21.1	25		77.0
60		15.6	20		68.0
50		10.0	15		59.0
40		4.4	10		50.0
30		-1.1	5		41.0
20		-6.7	0		32.0
10		-12.2	-5		23.0
			-10		14.0

Source: U.S. National Bureau of Standards, Special Publication 304a; Department of Geography, University of Hawaii, Atlas of Hawaii.

Section 1

POPULATION

This section presents statistics on the growth, geographic distribution, and composition of the population of Hawaii, and on the number and characteristics of migrants moving to and from the State.

The 1980 census reported a resident population of 965,000. This total included approximately 61,000 members of the armed forces and 64,000 of their dependents. It excluded more than 97,000 visitors who were present on an average day in 1980, while including around 10,000 residents who were temporarily out of the State. The total population has risen from 58,000 in 1878 to 154,000 in 1900 and 423,000 in 1940 (although a wartime peak of 859,000 was reached in 1944). Almost four-fifths of the 1980 de facto total lived on Oahu, giving that island a density of 1,386 persons per square mile. The population is young -- the median age in 1980 was 28.4 years -- and racially diversified. The major unmixed groups in 1979 were Caucasians (25.7 percent of the non-barracks, non-institutional population) and Japanese (24.8 percent). In addition, 28.3 percent were of mixed race, primarily part Hawaiian. Migration has been a major factor in the growth of the population: between 1970 and 1980, there was a net in-migration (excluding military personnel and dependents) of 101,000, accounting for 54.1 percent of the total civilian population growth during that time. Intended residents arriving aboard westbound civilian carriers in fiscal 1978 numbered 47,300, of whom 27,600 were military personnel and dependents and 19,700 were other civilians. Immigrant arrivals in fiscal 1979 exceeded 8,900, mostly from the Philippines and Korea.

The comparison of demographic data from different sources is often complicated by the use of differing definitions and coverage. Some series, for example, refer to resident population, while others pertain to de facto population; the latter includes visitors present but excludes residents temporarily absent. Total population includes armed forces stationed in an area, as well as their dependents in the area; civilian population excludes military personnel but includes their dependents. Perhaps the greatest confusion is that resulting from the arbitrary allocation of persons of mixed race in the 1970 and 1980 U.S. Censuses. Such groups were shown separately in earlier censuses, and are still reported separately in data issued by State agencies.

The principal sources for these data are the decennial population censuses conducted by the U.S. Bureau of the Census, the estimates developed annually by the Hawaii State Department of Health and Department of Planning and Economic Development in cooperation with the Bureau of the Census, the Hawaii Health Surveillance Program conducted regularly since 1969 by the Department of Health, the 1976 Survey of Income and Education, and the ongoing series on migration maintained by the Hawaii Visitors Bureau and U.S. Immigration and Naturalization Service. The Department of Planning and Economic Development summarizes these data in two series of reports, both issued annually: The Population of Hawaii and Hawaii's In-Migrants. Another annual report distributed by DPED contains population estimates by census tracts. Much additional information will become available when the detailed results of the 1980 Census of Population are published in 1982 and 1983. Earlier figures on population and migration are given in Historical Statistics of Hawaii, Sections 1 and 3. Comparable national statistics on population and migration appear in sections 1 and 3 of Statistical Abstract of the United States: 1980.

Table 1.-- POPULATION, URBAN AND RURAL: 1831 TO 1980

[Data for 1831-1896 are on a de facto or unspecified basis; data for 1900 and later years are resident totals, including armed forces stationed in Hawaii.]

Census date	Total population		Urban 1/		Rural 2/	
	Number	Percent change 3/	Places	Population	Population	Percent of total
1831-32 4/	129,814	...	1	13,344	116,470	89.7
1835-36 5/	108,568	-4.5	1	12,994	95,574	88.0
1850: January ..	84,165	-1.8	1	14,484	69,681	82.8
1853: Dec. 26 ..	73,138	-3.5	1	11,455	61,683	84.3
1860: Dec. 24 ..	69,800	-0.7	1	14,310	55,490	79.5
1866: Dec. 7 ...	62,959	-1.7	1	13,521	49,438	78.5
1872: Dec. 27 ..	56,897	-1.7	1	14,852	42,045	73.9
1878: Dec. 27 ..	57,985	0.3	1	14,114	43,871	75.7
1884: Dec. 27 ..	80,578	5.5	1	20,487	60,091	74.6
1890: Dec. 28 ..	89,990	1.8	1	22,907	67,083	74.5
1896: Sept. 27 .	109,020	3.3	1	29,920	79,100	72.6
1900: June 1 ...	154,001	9.4	1	39,306	114,695	74.5
1910: April 15 .	191,874	2.2	2	58,928	132,946	69.3
1920: January 1	255,881	3.0	2	92,251	163,630	63.9
1930: April 1 ..	368,300	3.6	12	197,937	170,363	46.3
1940: April 1 ..	422,770	1.4	17	264,262	158,508	37.5
1950: April 1 ..	499,794	1.7	17	344,869	154,925	31.0
1960: April 1 ..	632,772	2.4	19	483,961	148,811	23.5
1970: April 1 ..	769,913	2.0	34	643,222	126,691	16.5
1980: April 1 6/	964,691	2.3	(NA)	834,901	130,099	13.5

NA Not available.

1/ The urban population comprises all persons living in urbanized areas (first defined for Hawaii in 1960) and in places of 2,500 or more outside urbanized areas. Statistical boundaries were first established for Honolulu in 1831, Hilo in 1911 (for 1910 census tabulations), and other urban places beginning in 1930.

2/ The rural population includes all persons living outside urban places.

3/ Annual rate since the preceding census, based on the formula for continuous compounding.

4/ Total population also reported as 130,313.

5/ Total population also reported as 108,393 and 108,579.

6/ The Statewide total is a corrected figure. The urban and rural populations are unrevised.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 8; U. S. Bureau of the Census, release CB81-138 and correction sent August 20, 1981.

Table 2.-- RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1981

[Excludes visitors present but includes residents temporarily absent.]

Year 1/	Total resident population	Armed forces 2/	Civilian population		
			All civilians	Military dependents 3/	Not military dependents
1970: April 1 .	769,913	55,142	714,771	61,858	652,913
July 1 ..	776,000	53,200	722,800	57,800	665,000
1971	801,000	50,800	750,200	62,200	688,000
1972	828,000	52,000	776,000	66,200	709,800
1973	851,000	58,100	792,900	70,300	722,600
1974	867,000	57,500	809,500	68,300	741,200
1975	884,000	58,900	825,100	63,700	761,400
1976	902,000	57,800	844,200	67,000	777,200
1977	916,000	56,500	859,500	65,000	794,500
1978	929,000	58,300	870,700	61,100	809,600
1979	950,000	57,900	892,100	64,500	827,600
1980: April 1 .	964,691	61,019	903,672	64,023	839,649
July 1 4/	969,600	(NA)	(NA)	(NA)	(NA)
1981 4/	989,000	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ As of July 1 unless otherwise specified.

2/ These figures are the estimates prepared by the U.S. Bureau of the Census for use in State population estimation, and differ somewhat from the data compiled by the Hawaii State Department of Planning and Economic Development (and published annually in Military Personnel and Dependents in Hawaii) and the U.S. Bureau of Economic Analysis (for calculating per capita personal income).

3/ Dependents living in Hawaii, regardless of location of family head.

4/ Interim estimate based on linear projection of 1970-1980 trend.

Source: Hawaii State Department of Planning and Economic Development, Preliminary Intercensal Population Estimates, 1970-1980 (Statistical Report 147, July 9, 1981); U.S. Bureau of the Census, 1980 census correction note sent August 20, 1981.

Table 3.-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1970 TO 1981

Year 1/	Resident population 2/		De facto population 3/	
	Total	Temporarily absent 4/	Total	Visitors present 4/
1970: April 1 ..	769,913	10,300	796,500	36,900
July 1 ...	776,000	10,000	802,900	36,900
1971	801,000	9,400	832,500	40,900
1972	828,000	8,600	869,500	50,100
1973	857,000	9,800	900,700	59,600
1974	867,000	7,800	922,800	63,500
1975	884,000	9,000	941,300	66,300
1976	902,000	9,400	968,100	75,500
1977	916,000	9,000	990,000	83,000
1978	929,000	9,300	1,011,700	92,000
1979	950,000	9,300	1,039,400	98,700
1980: April 1 ..	964,691	9,600	1,052,700	97,600
July 1 5/.	969,600	9,600	1,056,500	96,500
1981 5/	989,000	(NA)	(NA)	(NA)

NA Not available.

1/ As of July 1 unless otherwise specified.

2/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area.

3/ The de facto population is defined as the number of persons physically present in an area, regardless of usual place of residence; it includes visitors present but excludes residents temporarily absent.

4/ Averages for 12-month periods centered on the estimate or census dates.

5/ Interim estimate subject to later revision.

Source: Hawaii State Department of Planning and Economic Development, *Preliminary Intercensal Population Estimates, 1970-1980* (Statistical Report 147, July 9, 1981); U.S. Bureau of the Census, 1980 census correction note sent August 20, 1981.

Table 4.-- RESIDENT POPULATION, TOTAL AND CIVILIAN, OF COUNTIES AND ISLANDS: 1970 AND 1980

[Excludes visitors present and includes residents temporarily absent.]

County and island	Total resident population 1/			Civilian resident population 2/	
	April 1, 1970	April 1, 1980 3/	Percent change	April 1, 1970	April 1, 1980 3/
State total	769,913	964,691	25.3	714,771	903,672
City and County of Honolulu	630,528	762,565	20.9	575,719	701,899
Oahu	630,497	762,534	20.9	575,719	701,893
Outlying islands 4/	31	31	0	-	6
Other counties	139,385	202,126	45.0	139,052	201,773
Hawaii	63,468	92,053	45.0	63,328	91,891
Kauai	29,761	39,082	31.3	29,627	38,918
Kauai	29,524	38,856	31.6	29,390	38,692
Kaula and Lehua	-	-	...	-	-
Niihau	237	226	-4.6	237	226
Maui and Kalawao	46,156	70,991	53.8	46,097	70,964
Kahoolawe	-	-	...	-	-
Lanai	2,204	2,119	-3.9	2,204	2,119
Maui	38,691	62,823	62.4	38,632	62,796
Molokai	5,261	6,049	15.0	5,261	6,049
Kalawao	172	144	-16.3	172	144
Rest of Molokai	5,089	5,905	16.0	5,089	5,905

1/ Including military personnel and their dependents.
2/ Excluding military personnel but including their dependents.
3/ Revised.
4/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll but excluding Midway.

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, PHC80-V-13 (March 1981) and correction note sent August 20, 1981; Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, April 1980 (Statistical Report 139, May 15, 1980), and records.

Table 5.-- DE FACTO POPULATION, 1970 AND 1980, AND DENSITY, 1980, OF COUNTIES AND ISLANDS

[Includes visitors present and excludes residents temporarily absent, both calculated as annual averages centered on the census date.]

County and island	De facto population 1/			De facto density, 1980	
	April 1, 1970	April 1, 1980	Percent change	Per square mile	Per square km.
State total	796,500	1,052,700	32.2	163.8	63.3
City and County of Honolulu	650,700	822,000	26.3	1,379.9	532.7
Oahu	650,700	822,000	26.3	1,386.8	535.5
Outlying islands 2/	31	31	0	10.3	3.9
Other counties	145,800	230,700	58.2	39.6	15.3
Hawaii	65,700	98,700	50.3	24.4	9.4
Kauai	31,800	46,100	45.3	74.5	28.8
Kauai	31,500	45,900	45.7	83.7	32.3
Kaula and Lehua	-	-	...	-	-
Niihau	237	226	-4.6	3.2	1.3
Maui and Kalawao	48,400	85,900	77.3	73.2	28.2
Kahoolawe	-	-	...	-	-
Lanai	2,200	2,100	-3.4	15.3	5.9
Maui	40,900	76,800	87.8	105.5	40.7
Molokai	5,300	6,900	30.2	26.5	10.2
Kalawao	172	144	-16.3	10.8	4.2
Rest of Molokai	5,100	6,800	31.7	27.3	10.6

1/ These estimates have been independently rounded to the nearest 100 (except for the smallest areas) and hence may not add exactly to the indicated totals. Data for both 1970 and 1980 were revised in June 1981.

2/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, but excluding Midway.

Source: Estimated by the Hawaii State Department of Planning and Economic Development, from 1980 resident population counts in 1980 Census of Population and Housing, PHC80-V-13, table 1, as corrected August 20, 1981; data on visitors present and residents absent supplied by the Hawaii Visitors Bureau; and area estimates from the Geography Division of the U.S. Bureau of the Census.

Table 6.-- RESIDENT POPULATION, BY COUNTIES: 1970 TO 1981

[Includes military personnel and dependents.]

Year 1/	State total	City & Co. of Honolulu	Hawaii County	Kauai County	Maui County
1970 April 1 ..	769,913	630,528	63,468	29,761	46,156
July 1 ...	776,000	634,700	64,500	30,100	46,700
1971	801,000	654,400	67,200	31,100	48,300
1972	828,000	675,700	70,200	31,800	50,300
1973	851,000	693,400	72,900	32,600	52,100
1974	867,000	704,300	75,600	32,800	54,300
1975	884,000	714,300	78,100	34,100	57,500
1976	902,000	726,000	80,600	35,200	60,200
1977	916,000	733,800	83,000	36,200	63,000
1978	929,000	740,300	85,700	37,000	66,000
1979	950,000	754,000	89,000	38,100	68,900
1980 April 1 ..	964,691	762,565	92,053	39,082	70,991
July 1 2/.	969,600	765,900	92,800	39,300	71,600
1981 2/	989,000	779,100	95,600	40,200	74,100

1/ July 1 unless otherwise specified.

2/ Interim estimates based on linear projection of 1970-1980 trends.

Source: Hawaii State Department of Planning and Economic Development, Preliminary Intercensal Population Estimates, 1970-1980 (Statistical Report 147, July 9, 1981); U.S. Bureau of the Census, 1980 census correction note sent August 20, 1981.

Table 7.-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS: 1960 TO 1980

County and district 1/	April 1, 1960	April 1, 1970	April 1, 1980	Percent change	
				1960 to 1970	1970 to 1980
The State	632,772	769,913	965,000	21.7	25.3
Honolulu	500,409	630,528	762,874	26.0	21.0
Honolulu	294,194	324,871	365,048	10.4	12.4
Koolaupoko	60,238	92,219	109,373	53.1	18.6
Koolauloa	8,043	10,562	14,195	31.3	34.9
Waialua	8,221	9,171	9,849	11.6	7.4
Wahiawa	34,595	37,329	41,562	7.9	11.3
Waianae	16,452	24,077	32,810	46.3	36.3
Ewa	78,666	132,299	190,037	68.2	43.6
Hawaii	61,332	63,468	92,053	3.5	45.0
Puna	5,030	5,154	11,751	2.5	128.0
South Hilo	31,553	33,915	42,278	7.5	24.7
North Hilo	2,493	1,881	1,679	-24.5	-10.7
Hamakua	5,221	4,648	5,128	-11.0	10.3
North Kohala	3,386	3,326	3,249	-1.8	-2.3
South Kohala	1,538	2,310	4,607	50.2	99.4
North Kona	4,451	4,832	13,748	8.6	184.5
South Kona	4,292	4,004	5,914	-6.7	47.7
Ka'u	3,368	3,398	3,699	0.9	8.9
Maui and Kalawao	42,855	46,156	70,991	7.7	53.8
Hana	1,073	969	1,423	-9.7	46.9
Makawao	10,409	9,979	19,005	-4.1	90.4
Wailuku	19,391	22,219	32,111	14.6	44.5
Lahaina	4,844	5,524	10,284	14.0	86.2
Lanai	2,115	2,204	2,119	4.2	-3.9
Molokai	4,744	5,089	5,905	7.3	16.0
Kalawao	279	172	144	-38.4	-16.3
Kauai	28,176	29,761	39,082	5.6	31.3
Waimea	7,057	7,569	8,593	7.3	13.5
Koloa	7,012	6,851	8,734	-2.3	27.5
Lihue	6,297	6,766	8,590	7.4	27.0
Kawaihau	6,498	7,393	10,497	13.8	42.0
Hanalei	1,312	1,182	2,668	-9.9	125.7

1/ For county and district boundaries, see map on page 6.

Source: U.S. Bureau of the Census, U.S. Census of Population: 1970, PC(1)-A13, table 10, and advance counts from the 1980 Census of Population.

Table 8.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES

[This table presents data for the 101 places defined by the Hawaii State Department of Planning and Economic Development, in cooperation with the Bureau of the Census, for the 1980 decennial census, under authority granted by Sec. 26-18, Hawaii Revised Statutes, 1976 Replacement. Boundaries of a large number of places were significantly altered between 1970 and 1980, and the 1970 and 1980 population counts accordingly refer to different areas. Although described in the legislation as "cities, towns, and villages," none of these places is an independent municipality with separate governmental and taxing powers; the boundaries determined for these places are statistical rather than political.]

Island and place	Land area, 1980 (acres)	Resident population	
		1970 1/	1980
Hawaii	2,583,680	63,468	92,053
Captain Cook	4,800	1,263	2,008
Hakalau	701	742	250
Hawi	674	797	795
Hilo	35,929	26,353	35,269
Holualoa 2/	2,767	(NA)	1,243
Honokaa	882	1,555	1,936
Honomu	301	737	559
Kailua	4,988	365	4,751
Kainaliu 2/	1,039	(NA)	512
Kapaau	1,234	237	612
Keaau	620	951	775
Kealakekua	1,327	740	1,033
Kukuihaele	1,120	310	332
Laupahoehoe	1,139	452	500
Makapala	823	201	186
Mountain View	1,032	419	540
Naalehu	2,541	1,014	1,168
Ookala	374	486	401
Paauilo	773	710	755
Pahala	637	1,507	1,619
Pahoa	1,461	924	923
Papaaloa	297	319	264
Papaikou	921	1,888	1,567
Paukaa 2/	266	(NA)	544
Puako 2/	2,707	(NA)	257
Waimea	652	756	1,179
Wainaku 2/	275	(NA)	1,045
Remainder of island ..	2,513,400	20,742	31,030

Continued on next page.

Table 8.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES -- Con.

Island and place	Land area, 1980 (acres)	Resident population	
		1970 1/	1980
Maui	466,048	38,691	62,823
Haiku	194	464	619
Haliimaile	150	638	741
Hana	1,521	459	643
Honokahua	545	431	309
Kaanapali 2/	852	(NA)	541
Kahului	2,888	8,280	12,978
Kihei 2/	2,099	(NA)	5,644
Lahaina	1,150	3,718	6,095
Lower Paia	626	1,105	1,500
Makawao	1,111	1,066	2,900
Napili-Honokowai 2/ ..	482	(NA)	2,446
Paia	630	541	193
Pauwela	234	355	468
Pukalani	1,478	1,629	3,950
Puunene	340	1,132	572
Waihee	278	346	413
Waikapu	257	598	698
Wailea 2/	1,348	(NA)	1,124
Wailuku	2,283	7,979	10,260
Remainder of island ..	447,582	9,950	10,729
Kahoolawe	28,800	-	-
Molokini	19	-	-
Lanai	89,280	2,204	2,119
Lanai City	154	2,122	2,092
Remainder of island ..	89,126	82	27
Molokai	166,976	5,261	6,049
Kaunakakai	1,289	1,070	2,231
Kualapuu	52	441	502
Maunaloa	99	872	633
Remainder of island ..	165,536	2,878	2,683
Oahu	379,328	630,497	762,843
Ahuimanu 2/	1,646	(NA)	6,238
Aiea 3/	3,716	25,106	32,879
Barbers Point Housing.	149	3,187	1,373
Ewa	627	2,906	2,637
Ewa Beach	882	7,765	14,369

Continued on next page.

Table 8.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES -- Con.

Island and place	Land area, 1980 (acres)	Resident population	
		1970 1/	1980
Oahu (con.):			
Haleiwa	1,207	2,626	2,412
Hauula	1,006	2,048	2,997
Heeia 2/	931	(NA)	5,432
Hickam Housing	776	7,352	4,425
Honolulu 4/...........	51,828	324,840	365,017
Iroquois Point	403	4,572	3,915
Kaaawa	367	848	959
Kahaluu	841	1,657	2,925
Kahuku	566	917	935
Kailua	4,470	33,783	35,812
Kaneohe	3,886	29,903	29,919
Laie	781	3,009	4,643
Maili	573	4,397	5,026
Makaha	1,600	4,644	7,905
Makakilo City	1,791	3,499	7,691
Maunawili	2,230	5,303	5,239
Mililani Town	2,354	2,035	20,351
Mokapu	2,718	7,860	11,615
Nanakuli	1,602	6,506	8,185
Pearl City 5/	5,449	27,398	42,575
Schofield Barracks ...	1,849	13,516	18,851
Wahiawa	1,492	17,598	16,911
Waialua	784	4,047	4,051
Waianae	2,194	3,302	7,941
Waimanalo	255	2,081	3,562
Waimanalo Beach	973	3,045	4,161
Waipahu	1,815	24,150	29,139
Waipio Acres	447	2,146	4,091
Whitmore Village	470	2,015	2,318
Remainder of island ..	276,650	52,882	46,344
Kauai	351,168	29,524	38,856
Anahola	860	638	915
Eleele	350	758	580
Hanalei	434	153	483
Hanamaulu	508	2,461	3,227
Hanapepe	580	1,388	1,417
Kalaheo	1,152	1,514	2,500
Kapaa	2,415	3,794	4,467
Kaumakani	559	1,014	888

Continued on next page.

Table 8.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES -- Con.

Island and place	Land area, 1980 (acres)	Resident population	
		1970 1/	1980
Kauai (con.):			
Kekaha	646	2,404	3,260
Kilauea	348	671	895
Koloa	722	1,368	1,457
Lihue	3,959	3,124	4,000
Poipu	587	466	685
Princeville 2/	1,367	(NA)	500
Puhi	129	772	991
Wailua	763	1,379	1,587
Waimea	624	1,569	1,569
Remainder of island	335,165	6,288	9,435
Niihau	44,544	237	226
Lehua and Kaula	523	-	-
Northwestern Hawaiian Islands, exc. Midway	1,895	31	31

NA Not available.

1/ Unless otherwise indicated, the 1970 totals shown here refer to the area as bounded for the 1970 census rather than the area defined for 1980.

2/ These places were newly defined for 1980.

3/ Aiea was redefined for 1980 to include four places shown separately in 1970: Aiea (12,560), Foster Village (3,755), Halawa Heights (5,809), and Waimalu (2,982). The 1970 population shown here is the sum of the figures for the separate places.

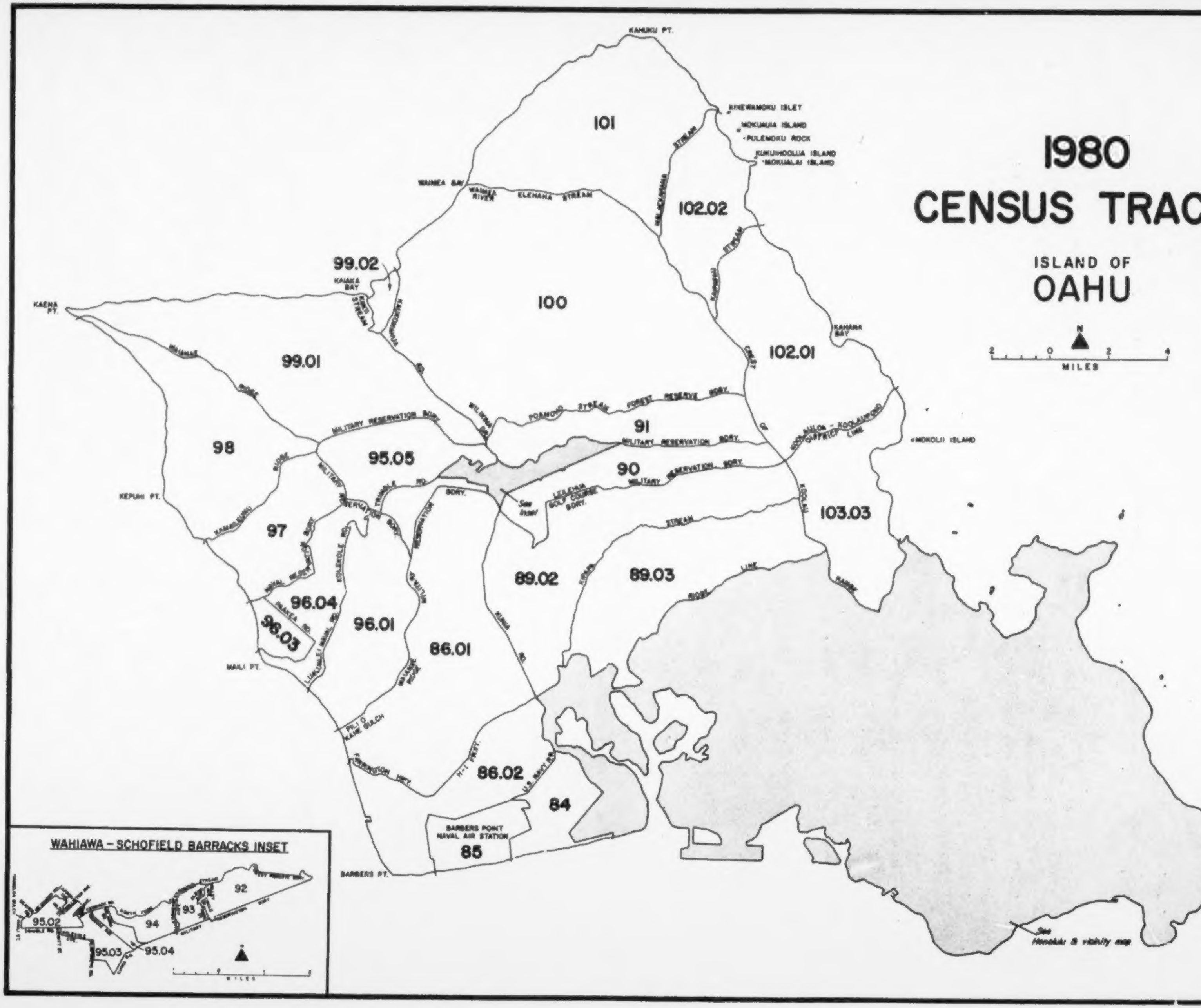
4/ Excluding the Northwestern Hawaiian Islands (1,895 acres; 31 inhabitants in both 1970 and 1980), legally part of Honolulu. Including the Northwestern Hawaiian Islands, Honolulu had a land area of 53,723 acres and a population of 324,871 in 1970 and 365,048 in 1980.

5/ Pearl City was redefined for 1980 to include two places shown separately in 1970: Pacific Palisades (7,846) and Pearl City (19,552). The 1970 population shown here is the sum of the figures for those two places.

Source: Area from Hawaii State Department of Planning and Economic Development, Statistical Boundaries of Cities, Towns and Villages As Approved Through December 31, 1979 (Report SB-A15, March 13, 1980). Population from U.S. Bureau of the Census, U.S. Census of Population: 1970, PC(1)-A13, tables 6 and 9 and correction note; 1980 Census of Population and Housing, PHC80-V-13, table 1; unpublished final counts for places over 300, supplied May 22, 1981; and unpublished final counts for places under 300 based on enumeration district data supplied February 13, 1981.

1980
CENSUS TRACTS

ISLAND OF
OAHU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KUKUIHOOLUA ISLAND
MOKUALAI ISLAND
WAIMEA BAY
WAIMEA RIVER
ELEHAHA STREAM
KALUANUI STREAM
KAIPAPAU STREAM
KAAAWA STREAM
KAHANA BAY
KAENA PT.
KAIAKA BAY
KIIKI STREAM
KAUKONAHUA RD.
WAIANAE RIDGE
POAMOHO STREAM
FOREST RESERVE BDRY.
CREST OF
KOOLAULOA - KOOLAUPOKO DISTRICT LINE
MOKOLII ISLAND
MILITARY RESERVATION BDRY.
TRIMBLE RD.
WILIKINA DR.
See Inset
LEILEHUA GOLF COURSE BDRY.
KOOLAU
STREAM
KEPUHI PT.
KAMAILEUNU RIDGE
NAVAL RESERVATION BDRY.
KOLEKOLE RD.
LUALUALEI NAVAL RD.
PAAKEA RD.
WAIANAE RIDGE
KUNIA RD.
KIPAPA
RIDGE LINE
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PILI O KAHE GULCH
FARRINGTON HWY.
H-1 FRWY.
U.S. NAVY RR.
BARBERS POINT NAVAL AIR STATION
BARBERS PT.
See Honolulu & vicinity map
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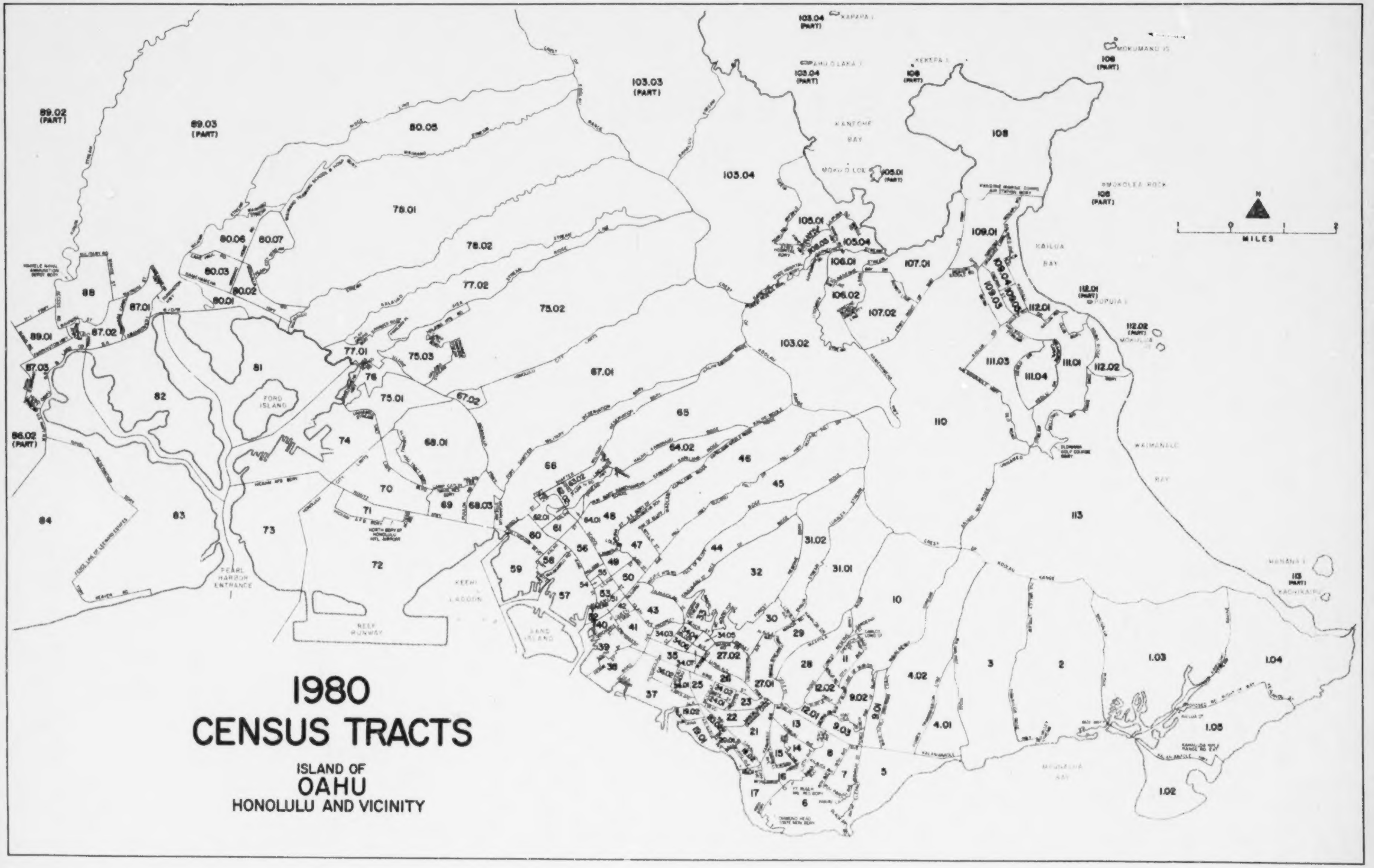
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103.04 (PART)
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108 (PART)
MOKUMANU IS.
108 (PART)
KANEOHE BAY
MOKU O LOE
105.01 (PART)
MOKOLEA ROCK
108 (PART)
KAILUA BAY
POPOIA I.
112.01 (PART)
MOKULUA IS.
112.02 (PART)
WAIMANALO BAY
MANANA I.
113 (PART)
KAOHIKAIPU I.
MAUNALUA BAY
FORD ISLAND
PEARL HARBOR ENTRANCE
REEF RUNWAY
KEEHI LAGOON
SAND ISLAND
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89.03 (PART)
86.02 (PART)
103.03 (PART)
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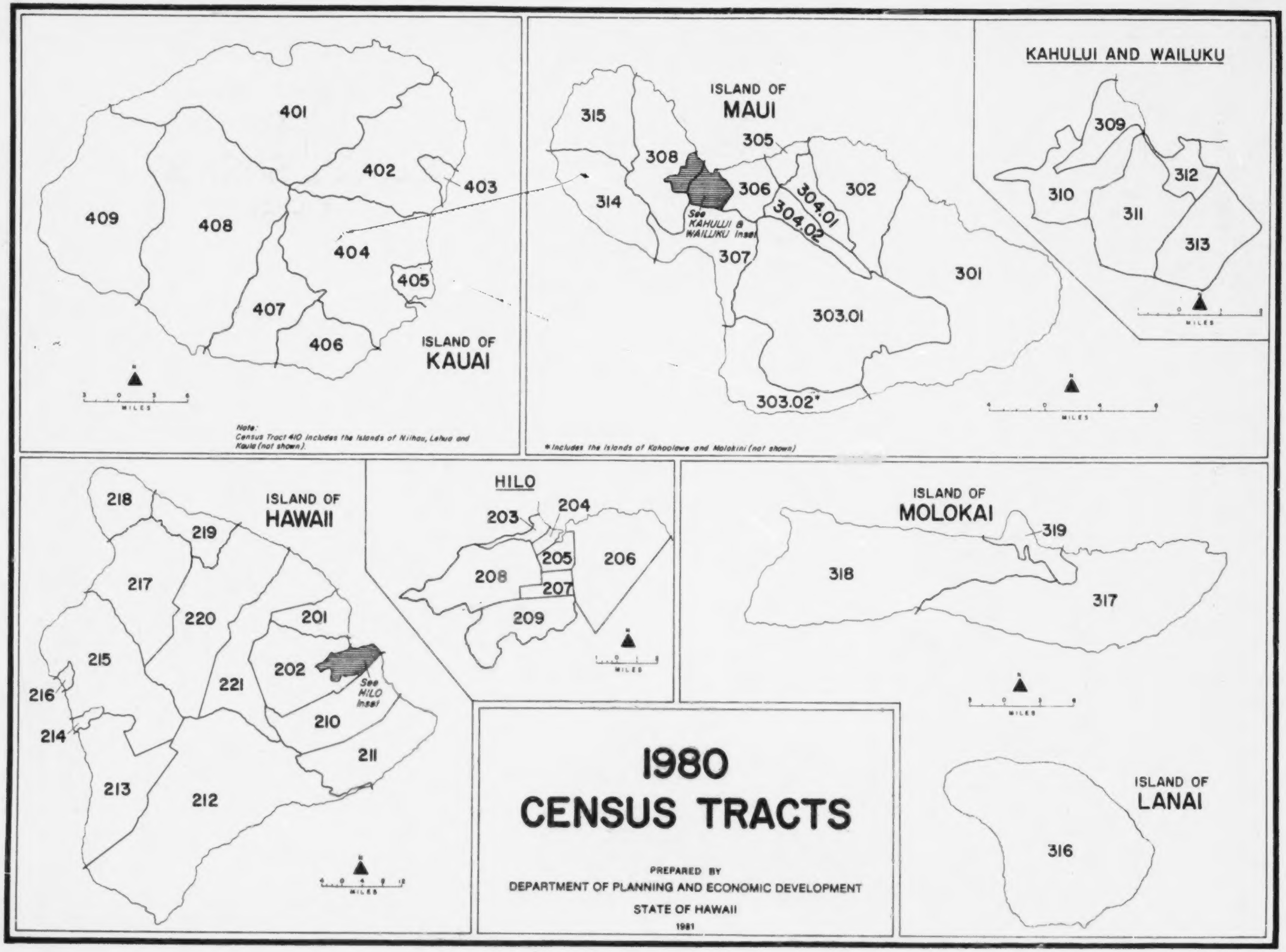
1980 CENSUS TRACTS

ISLAND OF
OAHU
HONOLULU AND VICINITY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MILES
ISLAND OF MAUI
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304.01
304.02
302
See KAHULUI & WAILUKU Inset
307
301
303.01
303.02*
MILES
KAHULUI AND WAILUKU
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MILES
ISLAND OF HAWAII
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See HILO Inset
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MILES
HILO
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MILES
ISLAND OF MOLOKAI
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317
MILES
ISLAND OF LANAI
316

Note:
Census Tract 410 includes the Islands of Niihau, Lehua and Kaula (not shown).

* Includes the Islands of Kahoolawe and Molokini (not shown)

1980
CENSUS TRACTS

PREPARED BY
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
STATE OF HAWAII
1981

Table 9.-- RESIDENT POPULATION OF COUNTIES, ISLANDS AND CENSUS TRACTS: 1970 AND 1980

County, island and census tract 1/	1980	1970	Percent change
State total	965,000	769,913	25.3
City and County of Honolulu	762,874	630,528	21.0
Honolulu CCD	365,048	324,871	12.4
1.02	2,067	1,915	7.9
1.03	10,784	3,243	232.5
1.04 (1.01 pt.)	7,202	7,414	72.0
1.05 (1.01 pt.)	5,550		
2	4,970	5,123	-3.0
3	5,518	6,485	-14.9
4.01	2,734	1,571	74.0
4.02	3,438	2,898	18.6
5	4,711	5,253	-10.3
6	1,654	2,025	-18.3
7	3,350	3,794	-11.7
8	4,137	4,599	-10.0
9.01	2,621	2,773	-5.5
9.02	3,912	4,392	-10.9
9.03	2,932	3,514	-16.6
10	3,213	3,650	-12.0
11	4,077	4,586	-11.1
12.01	3,227	3,657	-11.8
12.02	3,593	4,231	-15.1
13	4,642	5,146	-9.8
14	2,797	2,990	-6.5
15	3,857	4,345	-11.2
16	4,617	4,783	-3.5
17	2,492	2,559	-2.6
18.01	1,140	1,286	-11.4
18.02	3,259	2,774	17.5
19.01	1,412	1,111	27.1
19.02	5,413	3,368	60.7
20.01	2,560	2,186	17.1
20.02	3,600	2,399	50.1
21	3,619	3,347	8.1
22	6,782	3,796	78.7
23	5,073	4,195	20.9
24.01	2,912	3,060	-4.8
24.02	3,042	2,818	7.9
25	4,016	4,242	-5.3
26	4,819	5,163	-6.7

Continued on next page.

Table 9.-- RESIDENT POPULATION OF COUNTIES, ISLANDS AND CENSUS TRACTS: 1970 AND 1980 -- Con.

County, island and census tract 1/	1980	1970	Percent change
City and County of Honolulu, con.			
Honolulu CCD, con.			
27.01	5,291	3,675	44.0
27.02	5,344	5,039	6.1
28	3,679	4,316	-14.8
29	1,583	1,591	-0.5
30	4,491	4,966	-9.6
31.01	3,923	4,403	-10.9
31.02	3,716	4,030	-7.8
32	1,132	1,218	-7.1
33	1,069	1,145	-6.6
34.03	5,074	4,267	18.9
34.04 (34.01 pt.)	4,511	5,885	27.9
34.05 (34.01 pt.)	3,014		
34.06 (34.02 pt.)	5,238	4,761	31.7
34.07 (34.02 pt.)	1,033		
35	4,399	4,308	2.1
36.01	4,326	2,916	48.4
36.02	2,661	2,654	0.3
37	2,477	1,349	83.6
38	387	523	-26.0
38.99 2/	-	314	-100.0
39	115	263	-56.3
39.99 2/	108	134	-19.4
40	820	100	720.0
41	4,320	4,097	5.4
42	2,637	1,162	126.9
43	5,339	5,628	-5.1
44	5,274	6,142	-14.1
45	5,042	4,780	5.5
46	3,928	4,377	-10.3
47	4,893	5,500	-11.0
48	6,146	6,608	-7.0
49	3,165	3,292	-3.9
50	4,075	3,973	2.6
51	1,611	-	...
52	858	1,405	-38.9
53	4,529	482	839.6
54	1,718	1,862	-7.7

Continued on next page.

Table 9.-- RESIDENT POPULATION OF COUNTIES, ISLANDS AND CENSUS TRACTS: 1970 AND 1980 -- Con.

County, island and census tract 1/	1980	1970	Percent change
City and County of Honolulu, con.			
Honolulu CCD, con.			
55	2,106	1,975	6.6
56	5,794	5,768	0.5
57	1,556	2,615	-40.5
57.99 2/	592	134	341.8
58	3,524	3,163	11.4
59	3,854	4,388	-12.2
59.99 2/	21	61	-65.6
60	5,663	6,711	-15.6
61	3,381	3,262	3.6
62.01	4,741	4,295	10.4
62.02	2,665	2,523	5.6
63.01	3,315	3,713	-10.7
63.02	2,945	3,083	-4.5
64.01	1,737	1,400	24.1
64.02	5,579	5,280	5.7
65	4,037	4,011	0.6
66	2,716	3,424	-20.7
67.01	7,477	7,502	-0.3
67.02	2,755	2,317	18.9
68.01	20,689	2,968	597.1
68.02	4,890	4,532	7.9
68.03	-	-	...
69	3,109	3,694	-15.8
70	4,251	4,899	-13.2
71	2,588	1,402	84.6
72	1,364	3,864	-64.7
114	31	31	0
Rest of Oahu	397,826	305,657	30.2
73	6,393	7,530	-15.1
73.99 2/	-	3,034	-100.0
74	3,138	4,016	-21.9
74.99 2/	7,593	5,070	49.8
75.01	7,467	4,946	51.0
75.02	444	1,496	-70.3
75.03	4,865	4,982	-2.3
76	1,556	2,934	-47.0
77.01	4,645	4,880	-4.8
77.02	4,838	4,752	1.8

Continued on next page.

Table 9.-- RESIDENT POPULATION OF COUNTIES, ISLANDS AND CENSUS TRACTS: 1970 AND 1980 -- Con.

County, island and census tract 1/	1980	1970	Percent change
City and County of Honolulu, con.			
Rest of Oahu, con.			
78.01 (78 pt. and 79)	12,813	6,457	274.5
78.02 (78 pt.)	11,367		
80.01	1,498	1,268	18.1
80.02	2,987	3,347	-10.8
80.03	3,377	2,811	20.1
80.05	7,465	7,846	-4.9
80.06 (80.04 pt.)	5,906	9,057	36.7
80.07 (80.04 pt.)	6,473		
81	2,580	3,167	-18.5
81.99 2/	-	368	-100.0
82	-	-	...
83	12,437	4,759	161.3
84	7,643	7,801	-2.0
85	2,942	3,187	-7.7
86.01	8,559	4,226	102.5
86.02	4,653	4,114	13.1
86.99 2/	21	-	...
87.01	7,284	5,958	22.3
87.02	3,854	4,509	-14.5
87.03	3,468	2,238	55.0
88	4,484	3,429	30.8
89.01	7,861	7,328	7.3
89.02	24,860	4,420	462.4
89.03	6,566	2,369	177.2
90	2,413	2,783	-13.3
91	3,339	3,410	-2.1
92	7,420	6,637	11.8
93	4,451	4,875	-8.7
94	5,040	6,048	-16.7
95.01	3,587	3,762	-4.7
95.02	5,326	4,901	8.7
95.03	6,076	2,566	137.3
95.04	955	1,495	-36.1
95.05	2,955	858	244.4
96.01	5,159	4,024	28.2
96.03 (96.02 pt.)	5,711	9,630	2.6
96.04 (96.02 pt.)	4,165		
97	11,847	6,020	96.8
98	5,928	4,403	34.6
99.01	5,350	4,529	18.1
99.02	2,620	2,817	-7.0

Continued on next page.

Table 9.-- RESIDENT POPULATION OF COUNTIES, ISLANDS AND CENSUS TRACTS: 1970 AND 1980 -- Con.

County, island and census tract 1/	1980	1970	Percent change
City and County of Honolulu, con.			
Rest of Oahu, con.			
100	1,879	1,825	3.0
101	4,491	3,497	28.4
102.01	3,952	3,255	21.4
102.02	5,752	3,810	51.0
103.02	3,232	3,338	-3.2
103.03 (103.01 pt.)	3,593	8,189	63.4
103.04 (103.01 pt. and 104)	9,784		
105.01	8,712	5,501	58.4
105.03 (105.02 pt.)	1,804	6,989	-5.6
105.04 (105.02 pt.)	4,794		
106.01	3,019	3,227	-6.4
106.02	4,994	5,105	-2.2
107.01	3,680	2,586	42.3
107.02	3,723	3,500	6.4
108	11,578	7,860	47.3
108.99 2/	37	-	...
109.01	3,161	3,374	-6.3
109.03 (109.02 pt.)	4,158	11,248	-9.3
109.04 (109.02 pt.)	3,506		
109.05 (109.02 pt.)	2,536		
110	4,218	3,957	6.6
111.01	7,966	6,352	25.4
111.03 (111.02 pt.)	3,872	7,003	32.0
111.04 (111.02 pt.)	5,370		
112.01	4,841	5,377	-10.0
112.02	1,663	1,832	-9.2
113	9,132	6,777	34.7
Hawaii County	92,053	63,468	45.0
201	5,261	5,503	-4.4
202	1,748	2,059	-15.1
203	4,292	3,435	24.9
204	4,003	3,531	13.4
205	5,672	4,604	23.2
205.99 2/	25	83	-69.9
206	3,702	2,989	23.9
207	7,690	5,231	47.0
208	7,017	4,865	44.2
209	2,868	1,615	77.6
210	7,055	3,802	85.6
211	4,696	1,352	247.3

Continued on next page.

Table 9.-- RESIDENT POPULATION OF COUNTIES, ISLANDS AND CENSUS TRACTS: 1970 AND 1980 -- Con.

County, island and census tract 1/	1980	1970	Percent change
Hawaii County, con.			
212	3,699	3,398	8.9
213	3,560	1,563	127.8
214	2,354	2,441	-3.6
215	7,610	2,589	193.9
216	6,138	2,243	173.7
217	4,607	2,310	99.4
218	3,249	3,326	-2.3
219	3,287	2,829	16.2
220	1,841	1,819	1.2
221	1,679	1,881	-10.7
Maui and Kalawao Counties	70,991	46,156	53.8
Maui	62,823	38,691	62.4
301	1,423	969	46.9
302	3,567	2,067	72.6
303.01 (303 pt.)	3,850	2,124	139.0
303.02 (303 pt.)	1,227		
304.01 (304 pt.)	4,366	4,123	109.8
304.02 (304 pt.)	4,285		
305	1,710	1,665	2.7
306	220	781	-71.8
307	6,020	1,636	268.0
307.99 2/	15	-	...
308	1,584	1,299	21.9
309	6,542	4,537	44.2
310	4,132	4,547	-9.1
311	10,424	5,505	89.4
312	2,602	2,782	-6.5
313	572	1,132	-49.5
314	6,654	4,171	59.5
315	3,630	1,353	168.3
Lanai	2,119	2,204	-3.9
316	2,119	2,204	-3.9
Molokai	6,049	5,261	15.0
317	3,574	2,574	38.9
318	2,331	2,515	-7.3
319 (Kalawao County)	144	172	-16.3
Kauai County	39,082	29,761	31.3
Kauai	38,856	29,524	31.6
401	2,668	1,182	125.7
402	6,030	3,599	67.5
403	4,467	3,794	17.7

Continued on next page.

Table 9.-- RESIDENT POPULATION OF COUNTIES, ISLANDS AND CENSUS TRACTS: 1970 AND 1980 -- Con.

County, island and census tract 1/	1980	1970	Percent change
Kauai County, con.			
Kauai, con.			
404	4,590	3,642	26.0
405	4,000	3,124	28.0
406	3,879	3,141	23.5
407	4,855	3,660	32.7
407.99 2/	-	50	-100.0
408	3,111	3,173	-2.0
409	5,256	4,159	26.4
Niihau	226	237	4.6
410	226	237	-4.6

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations. The census tract maps preceding this table show the 1980 tract numbers and boundaries.

2/ The ".99" census tracts consist of vessels anchored off the indicated tract; for example, persons living aboard ships in Kewalo Basin, adjacent to tract 38, are assigned to tract 38.99.

Source: U.S. Bureau of the Census, advance tabulations for 1980 and published data for 1970 cited in the Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1980: Final Census Results (Statistical Report 143, March 18, 1981), table 4.

Table 10.-- RESIDENT POPULATION OF URBANIZED AREAS, OTHER URBAN PLACES, AND RURAL TERRITORY: 1960 TO 1980

Kind of area	1980	1970	1960
State total 1/	965,000	769,913	632,772
Honolulu Urbanized Area 2/	581,449	443,749	351,336
Honolulu	365,048	324,871	294,194
Rest of urbanized area	216,401	118,878	57,142
Kailua-Kaneohe Urbanized Area 3/	105,712	...	...
Kailua 4/	35,812	33,783	24,402
Kaneohe 4/	29,919	29,903	15,291
Rest of urbanized area	39,981	...	...
Other urban places	147,740	135,787	92,932
Rural territory	130,099	126,691	148,811

1/ The 1980 Statewide total shown here was later corrected to 964,691.

2/ The Honolulu Urbanized Area consists of Honolulu proper (the area southwest of the crest of the Koolau Mountains, between Red Hill and Makapuu Point) and the adjacent urbanized territory circling Pearl Harbor, as far north and west as Waipahu in 1960, Ewa and Ewa Beach in 1970, and Whitmore Village in 1980.

3/ The Kailua-Kaneohe Urbanized Area was initially defined as of 1980. It includes Kailua, Kaneohe, and the adjacent urbanized territory on the windward side of Oahu, from Kahaluu to Waimanalo Beach.

4/ The 1960 totals for Kailua and Kaneohe have been adjusted to the 1970 boundaries.

Source: U.S Census of Population; 1960, PC(1)-13A, tables 1, 8, and 10, and unpublished enumeration district data; U.S. Census of Population: 1970, PC(1)-A13, tables 1, 6, and 11, and correction note; U.S. Department of Commerce, releases CB81-125 and CB81-138; U.S. Bureau of the Census, unpublished final counts supplied May 22, 1981, August 20, 1981, and August 24, 1981.

Table 11.-- POPULATION PROJECTIONS: 1975 TO 2000

[In thousands. The 1985-2000 data in this table are the Series II-F projections prepared in 1978 and officially recommended by the Hawaii State Department of Planning and Economic Development for planning purposes. They will be revised after the release of detailed 1980 census results.]

Year	De facto population 1/		Resident population 2/			
					Age	
	State total	Oahu	State total	Oahu	Under 15 years	65 years and over
1975 3/	941.3	752.7	884.0	714.3	213.8	54.6
1980 4/	1,052.4	821.9	965.0	762.9	226.0	76.2
1985	1,133.3	866.0	1,020.9	803.8	231.3	93.7
1990	1,229.8	917.6	1,091.5	845.0	246.4	111.7
1995	1,325.0	965.7	1,163.8	885.8	261.2	127.4
2000	1,395.3	996.2	1,225.9	917.4	273.2	142.0

1/ Including visitors present but excluding residents temporarily absent. The estimates of visitors present and residents absent are annual averages.

2/ Including armed forces stationed or homeported in Hawaii and their dependents living in Hawaii but excluding visitors present.

3/ Estimated.

4/ Census data (except de facto population, which is estimated).

Source: Hawaii State Department of Planning and Economic Development, Preliminary Intercensal Population Estimates, 1970-1980 (Statistical Report 147, July 9, 1981), tables 2 and 3 and underlying data; Revised Population and Economic Projections, 1975-2000 (March 1, 1978), pp. 4-5; and De Facto Population Projections for Counties, 1978-2000 (Statistical Memorandum 79-5, April 26, 1979).

Table 12.-- AGE, SEX, AND RACE OF THE POPULATION: 1980

Age	Sex			Race 1/	Number
	Total	Male	Female		
All ages	964,691	494,683	470,008	All races ...	964,691
Under 5 years	77,848	40,004	37,844	White	318,770
5 to 9 years	73,057	37,555	35,502	Black	17,364
10 to 14 years	74,870	38,459	36,411	American Indian ..	2,655
15 to 19 years	86,446	45,673	40,773	Eskimo	68
20 to 24 years	105,682	59,070	46,612	Aleut	45
25 to 29 years	95,287	48,864	46,423	Japanese	239,748
30 to 34 years	84,314	42,990	41,324	Chinese	56,285
35 to 44 years	111,416	56,449	54,967	Filipino	133,940
45 to 54 years	94,444	44,887	49,557	Korean	17,962
55 to 59 years	47,383	23,502	23,881	Asian Indian	604
60 to 64 years	37,794	18,871	18,923	Vietnamese	3,463
65 to 74 years	49,375	26,375	23,000	Hawaiian	115,500
75 to 84 years	21,214	9,973	11,241	Guamanian	1,677
85 years and over ..	5,561	2,011	3,550	Samoan	14,073
				Other	42,537
Under 18 years	275,583	141,516	134,067		
18 to 64 years	612,958	314,808	298,150		
65 years and over ..	76,150	38,359	37,791		

1/ By self-identification or race of mother. Data are not comparable to Health Surveillance Program tabulations in table 14; the latter, unlike the 1980 census figures shown here, exclude persons in military barracks or institutions and report Part Hawaiians and other persons of mixed race separately.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980: Summary Tape File 1A, Hawaii (1981).

Table 13.-- AGE, SEX AND MILITARY STATUS: 1980

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Based on a sample survey of 14,407 persons.]

Age in years	Total	Armed forces		Military dependents		Other civilians	
		Male	Female	Male	Female	Male	Female
All ages ..	930,271	33,082	1,932	18,983	44,410	410,519	421,345
Under 5	72,800	-	-	8,114	8,080	29,194	27,412
5 to 9	69,720	-	-	4,877	6,138	30,657	28,048
10 to 14	79,583	-	-	3,533	3,021	39,107	33,921
15 to 19	83,584	1,037	-	1,901	2,775	38,526	39,345
20 to 24	84,035	8,612	882	379	6,403	30,001	37,758
25 to 29	86,154	8,314	799	134	6,850	35,130	34,927
30 to 34	77,735	6,987	168	44	5,282	31,421	33,833
35 to 39	55,713	4,255	84	-	2,897	22,415	26,062
40 to 44	46,180	2,488	-	-	1,439	19,820	22,432
45 to 49	44,725	1,170	-	-	630	20,766	22,159
50 to 54	49,174	134	-	-	212	20,765	28,062
55 to 59	48,672	84	-	-	180	25,246	23,162
60 to 64	42,032	-	-	-	84	21,051	20,897
65 to 69	35,365	-	-	-	168	18,681	16,516
70 to 74	21,868	-	-	-	84	12,028	9,756
75 and over	24,461	-	-	-	-	11,896	12,566
Age not reported	8,471	-	-	-	-	3,815	4,488
Under 18 1/	277,825	691	-	17,779	19,089	124,639	115,585
18 and over 1/ .	643,975	32,391	1,932	1,204	25,321	282,065	301,272
65 and over	81,694	-	-	-	252	42,605	38,838
Median (years) .	29.1	29.1	25.5	6.4	21.7	30.1	31.0

1/ Interpolated from data by 5-year age groups.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 14.-- ETHNIC STOCK BY MILITARY STATUS: 1980

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 14,407 persons.]

Ethnic stock 1/	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups	930,271	100.0	35,098	63,309	831,864
Unmixed	676,344	72.7	33,494	54,272	588,576
Caucasian	244,832	26.3	26,527	39,387	178,918
Japanese	218,176	23.5	442	1,804	215,930
Chinese	47,275	5.1	128	432	46,716
Filipino	104,547	11.2	1,720	3,939	98,889
Hawaiian	9,366	1.0	-	-	9,366
Korean	11,803	1.3	-	503	11,300
Negro	11,799	1.3	3,621	4,873	3,304
Puerto Rican	6,649	0.7	212	718	5,719
Samoan	11,173	1.2	594	1,484	9,095
Other unmixed or unknown ..	10,723	1.2	251	1,133	9,339
Mixed	253,927	27.3	1,604	9,037	243,288
Part Hawaiian	166,087	17.9	659	1,343	164,086
Non Hawaiian	87,840	9.4	945	7,694	79,202

1/ Definitions used in this table differ widely from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 15.-- PLACE OF BIRTH BY MILITARY STATUS: 1980

[Excludes persons in institutions, military barracks, Kalawao or Niihau. Based on a sample survey of 14,407 persons.]

Place of birth	All groups	Armed forces	Military dependents	Other civilians
Total	930,271	35,098	63,309	831,864
Native born	794,667	32,496	52,605	709,566
Hawaii	581,300	2,005	12,026	567,269
Mainland U.S.	203,334	29,813	39,614	133,907
American Samoa	6,548	383	211	5,954
Other terr. or poss.	3,485	295	754	2,436
Foreign born	122,243	2,307	10,092	109,843
China	9,029	-	515	8,514
Indo-China 1/	5,664	-	503	5,161
Japan	24,659	84	1,889	22,686
Korea	6,516	-	838	5,678
Philippines	58,227	1,173	3,184	53,869
Other foreign	18,147	1,050	3,163	13,935
Not reported	13,361	295	612	12,454

1/ Cambodia, Laos, or Vietnam.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 16.-- UNDERSTANDING OF ENGLISH: SPRING 1976

[Excludes persons under 18 years of age, inmates of institutions, and residents of military barracks.]

Understanding of English	Number	Percent
All adults	596,039	100.0
Understand easily	556,225	93.3
Do not understand easily	33,882	5.7
Do not understand	5,902	1.0

Source: Hawaii State Department of Health, Comprehension of English in Hawaii (R & S Report, No. 20, February 1978), p. 5.

Table 17.-- LENGTH OF RESIDENCE IN HAWAII BY MILITARY STATUS: 1980

[Excludes persons in military barracks, institutions, Kalawao, or Niihau. Based on a sample survey of 14,407 persons.]

Length of residence in Hawaii	All groups	Armed forces	Military dependents	Other civilians
All periods	930,271	35,098	63,309	831,864
Less than 1 year	50,260	6,110	14,252	29,898
1 to 4 years	158,722	21,718	37,109	99,894
5 to 9 years	110,639	2,814	6,230	101,595
10 to 19 years	186,957	2,010	3,186	181,760
20 years or more	404,476	1,970	2,196	400,310
Not reported	19,217	475	335	18,406
Median (years) 1/	17.3	3.1	2.9	19.6

1/ The 1979 median for "other civilians" was 19.2 years. An incorrect figure appeared in the 1980 edition, table 16.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 18.--CITIZENSHIP: 1980

[Excludes persons in military barracks, institutions, Kalawao, or Niihau. Based on a sample survey of 14,407 persons.]

Subject	All categories	U.S. citizens		U.S. nationals	Aliens	Status not reported
		Native born 1/	Naturalized			
Total	930,271	807,259	41,127	2,382	48,605	30,897
County:						
Honolulu	730,171	628,904	33,183	2,341	39,454	26,289
Hawaii	91,221	83,661	2,794	23	2,182	2,561
Kauai	38,269	33,071	1,928	18	2,329	923
Maui	70,609	61,623	3,222	-	4,640	1,124
Age:						
Under 6 years	86,545	83,828	230	-	1,154	1,333
6 to 16 years	170,721	158,833	1,542	360	7,235	2,751
17 to 24 years	132,456	116,411	3,642	613	7,932	3,856
25 to 44 years	265,781	226,856	13,692	786	15,588	8,860
45 to 64 years	184,603	157,802	11,390	600	8,044	6,767
65 years and over	81,694	58,282	10,306	23	8,555	4,528
Not reported	8,471	5,248	326	-	96	2,802
Years in Hawaii:						
Under 1 year	50,260	44,107	900	-	3,484	1,768
1 to 4 years	158,722	130,550	3,390	348	18,959	5,475
5 to 9 years	110,639	87,013	6,589	752	11,909	4,376
10 to 19 years	186,957	162,016	12,304	840	6,164	5,632
20 years and over	404,476	373,572	16,496	275	7,464	6,670
Not reported	19,217	10,000	1,449	168	626	6,974
Residence 1 year ago: 2/						
Hawaii	870,144	759,580	39,804	2,382	44,107	24,272
Mainland U.S.	30,082	27,720	658	-	725	980
U.S. terr. or poss. ..	944	335	84	-	253	272
Foreign country	6,286	2,090	262	-	3,334	600
Not reported	8,384	3,104	320	-	187	4,773

1/ Includes U.S. citizens of unspecified type.

2/ For persons one year of age and older.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 19.-- ALIENS WHO REPORTED UNDER THE ALIEN ADDRESS PROGRAM BY STATUS AND NATIONALITY: 1970, 1979, AND 1980

Status and nationality	1970	1979	1980
Total aliens	53,003	69,622	73,018
Status:			
Permanent residents	48,164	62,922	63,045
Other than permanent 1/	4,839	6,700	9,973
Nationality: 2/			
Australia	274	418	464
Canada	1,568	1,861	2,064
China 3/	2,213	3,485	2,127
Germany	691	687	686
Japan	15,351	13,090	13,029
Korea	1,138	6,123	6,527
Laos	23	602	973
Philippines	26,311	33,163	34,597
Samoa, Western	265	651	573
Taiwan 3/	...	437	932
Thailand	168	601	638
United Kingdom 4/	1,548	1,939	2,546
Vietnam	99	1,732	2,649
Other nationalities	3,048	4,070	4,369
Stateless	20	44	291
Unknown	286	719	553
Aliens as percent of resident population 5/	6.9	7.4	7.6

1/ Includes commuter workers (95 in 1980), visitors (816), crewmen (107), students (1,819), exchange aliens (507), refugees (2,351), and others (4,278).

2/ Shown separately for nationalities over 400 in 1980.

3/ Taiwan included with China before 1979.

4/ Including Hong Kong.

5/ Based on April 1 population data (1979 estimated).

Source: U.S. Department of Justice, Immigration and Naturalization Service, records.

Table 20.-- HOUSEHOLDS AND PERSONS IN HOUSEHOLDS AND GROUP QUARTERS: 1950 TO 1980

County and year	Resident population			House-holds	Persons per household
	Total	In house-holds	In group quarters		
State total:					
1980	965,000	925,401	39,599	294,051	3.15
1970 1/	768,561	730,095	38,466	203,088	3.59
1960	632,772	592,807	39,965	153,064	3.87
1950	499,794	463,230	36,564	111,858	4.14
Counties, 1980:					
Honolulu	762,874	726,174	36,700	230,213	3.15
Hawaii	92,053	90,436	1,617	29,237	3.09
Kalawao	144	104	40	71	1.46
Kauai	39,082	38,679	403	12,020	3.22
Maui	70,847	70,008	839	22,510	3.11

1/ The revised State total was 769,913, but household data were not tabulated for the 1,352 added residents.

Source: U.S. Census of Population: 1960, PC(1)-13B, table 19; Census of Population: 1970, PC(1)-B13, table 22; 1980 Census of Population, PC80-S1-2 (May 1981), p. 8.

Table 21.-- HOUSEHOLD AND FAMILY CHARACTERISTICS: 1976

Subject	Number
Persons	
Population in households	842,000
In families	776,000
Head	201,000
65 years and over	21,000
Related children under 18 years	275,000
Related children 5 to 17 years	204,000
Other family members	299,000
Unrelated individuals	66,000
65 years and over	12,000
In families with female head, no husband present	77,000
Head	22,000
Related children under 18 years	36,000
Related children 5 to 17 years	27,000
Other family members	19,000
Female unrelated individuals	29,000
Families	
Total families	201,000
Size:	
2 persons	59,000
3 persons	43,000
4 persons	45,000
5 persons	27,000
6 persons	16,000
7 persons or more	10,000
Mean size of family	3.86
Number of related children under 18 years:	
No related children under 18 years	78,000
With related children under 18 years	123,000
1 child	47,000
2 children	42,000
3 children or more	34,000
Mean number of children	2.26

Source: U.S. Bureau of the Census, "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), p. 179.

Table 22.-- FAMILIES AND PERSONS IN FAMILIES, BY COUNTIES: 1980

[Based on a Statewide sample of 13,257 persons in families.]

County	Families	Persons in families	Persons per family
State total	239,559	857,561	3.58
Honolulu	188,379	674,798	3.58
Hawaii	23,632	84,033	3.56
Kauai	9,708	35,387	3.65
Maui	17,840	63,343	3.55

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 23.-- MARITAL STATUS, BY SEX: 1980

[Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 11,150 persons 14 years old and over.]

Marital status	Male	Female
Persons 14 years old and over	355,455	368,945
Single	118,452	96,520
Married, except separated	215,486	217,777
Separated	1,053	3,947
Widowed	7,909	29,129
Divorced	11,324	21,050
Not reported	1,233	522

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 24.-- RELIGION: 1976 AND 1979

[Because of differences in questionnaire design, 1976 and 1979 data may not be directly comparable.]

Religious affiliation	Percent of persons surveyed		Percent of group active: June 1976 1/
	September 1979 2/	June 1976 1/	
All groups	100.0	100.0	41
Atheist, agnostic ..	4.5	3.1	11
Buddhist	11.8	10.7	33
Catholic	31.1	30.5	49
Jewish	0.3	0.5	19
Mormon	2.5	7.8	59
Protestant	34.2	23.5	42
Other	15.6	23.8	32

1/ Based on a sample of 4,309 persons on six islands, surveyed by the Oahu Public Communications Council of the Church of Jesus Christ of Latter-day Saints.

2/ Based on a sample of 1,335 persons on six islands, surveyed by the Hawaii Public Communications Council of the Church of Jesus Christ of Latter-day Saints.

Source: Oahu Public Communications Council of the Church of Jesus Christ of Latter-day Saints, The Purpose of Life Survey (pamphlet, 1976), and underlying printouts; Hawaii Public Communications Council of the Church of Jesus Christ of Latter-day Saints, "Religion Survey for BYU-HC" (printout of September 1979 survey).

Table 25.-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION BY MILITARY STATUS: 1960 TO 1970 AND 1970 TO 1980

Period and component	All groups	Armed forces	Civilian population		
			Military dependents	Not military dependents	
				Number	Percent distrib.
1960 TO 1970 1/					
Net change	+137,141	+3,204	+1,801	+132,136	100.0
Natural increase	125,519	-642	42,351	83,810	63.4
Live births	163,762	-	43,908	119,854	...
Deaths	38,243	642	1,557	36,044	...
Net military separations 2/.	-	+4,120	-	-4,120	-3.1
Net migration	+11,622	-274	-40,550	+52,446	39.7
1970 TO 1980 3/					
Net change	+195,087	+5,877	+2,165	+187,045	100.0
Natural increase	118,073	-680	35,679	83,074	44.4
Live births	162,215	-	37,234	124,981	...
Deaths	44,142	680	1,555	41,907	...
Net military separations 2/.	-	-2,731	-	+2,731	1.5
Net migration	+77,014	+9,288	-33,514	+101,240	54.1

1/ April 1, 1960 to March 31, 1970.
2/ Separations less inductions for armed forces.
3/ April 1, 1970 to March 31, 1980.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's In-Migrants, 1971 (Statistical Report 89, April 10, 1972), pp. 17-18; 1970-1980 estimates by Hawaii State Department of Planning and Economic Development based on data from the U.S. Bureau of the Census, Hawaii State Department of Health, and U.S. armed forces.

Table 26.-- COMPONENTS OF CHANGE IN THE ALIEN POPULATION: 1971 TO 1980

Year	Aliens reporting, January	Components of change in alien population 1/			
		Immigrants admitted 2/	Aliens naturalized	Alien deaths	Other components 3/
1971	57,187	6,055	2,135	994	+1,021
1972	60,898	6,765	2,389	1,009	-443
1973	63,034	6,881	2,099	997	-2,019
1974	64,430	6,549	2,833	963	-1,601
1975	65,339	7,012	3,094	991	-1,059
1976	68,164	7,789	3,130	950	-2,095
1976, 3 mo.	...	1,882	1,118	224	-440
1977	68,567	7,825	4,532	886	-1,263
1978	69,958	9,053	3,672	915	-4,370
1979	69,622	8,944	4,384	942	-1,155
1980	73,018	(NA)	(NA)	913	(NA)

NA Not available.

1/ Years ended June 30, 1971 through 1976; three-month period ended September 30, 1976; years ended September 30, 1977 forward.

2/ The 1975 figure excludes approximately 2,000 Vietnamese refugees still in parole status at the end of the fiscal year; these immigrants were counted in later years upon adjustment under the Immigration and Nationality Act.

3/ Implicit change resulting from emigration and interstate migration. Calculated as a residual from data on net change (as interpolated from the January alien address reports), immigration, naturalization, and alien deaths. These estimates are affected by both underreporting in the alien address reports and delayed inclusion of refugee aliens in the annual immigration totals.

Source: Aliens who reported under the alien address program, immigrants admitted, and aliens naturalized from the U.S. Immigration and Naturalization Service, Annual Report (annual) and records; alien deaths from the Hawaii State Department of Health, records; other components of change calculated as a residual by the Hawaii State Department of Planning and Economic Development.

Table 27.-- INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND UNITED STATES: 1970 TO 1980

Calendar year	Number arriving, by military status			
	Total	Military personnel	Military dependents	Other civilians
1970	40,073	8,561	7,129	24,383
1971	41,562	9,355	8,649	23,558
1972	44,388	10,267	11,637	22,484
1973	36,886	9,200	6,180	21,506
1974	37,007	9,421	8,744	18,842
1975	39,233	10,006	10,887	18,340
1976	40,690	10,991	10,518	19,181
1977	43,617	12,361	12,771	18,485
1978 1/ .	39,476	12,294	11,783	15,399
1979 1/ .	22,559	5,283	4,699	12,577
1980 1/ .	13,922	5,559	5,097	3,266

Calendar year	Persons per party	High status 2/ (percent)	Median age (years)	From West Coast 3/ (percent)
1970	1.44	65.6	24.4	42.8
1971	1.48	64.2	24.3	38.6
1972	1.57	64.7	24.1	35.1
1973	1.40	61.6	24.2	39.1
1974	1.53	67.4	24.2	42.4
1975	1.58	67.3	23.6	35.1
1976	1.55	67.1	24.3	34.1
1977	1.64	70.2	24.0	30.1
1978 1/ .	1.63	70.3	24.4	29.9
1979 1/ .	1.58	68.7	25.7	37.6
1980 1/..	1.70	72.8	23.9	22.5

1/ Totals for 1978, 1979 and 1980 apparently reflect changes in passenger response rates resulting from a redesigned questionnaire introduced in July 1978 and withdrawn in July 1979. It is likely that the number of intended residents arriving during these years was significantly higher than the totals shown here.

2/ Party heads classified as professional, technical, business, managerial, or official as a percent of all party heads reporting civilian occupations.

3/ Persons from California, Oregon, or Washington State as a percent of all persons reporting previous residence.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's In-Migrants (annual).

Table 28.-- IMMIGRANTS ADMITTED, BY COUNTRY OF BIRTH: 1970 TO 1979

[For years ended June 30 through 1976 and September 30 thereafter. Data refer to immigrants admitted to the U.S., reporting Hawaii as their State of intended permanent residence.]

Year	Total 1/	Canada	China and Taiwan	Japan
1970 2/	9,013	90	423	363
1971	6,055	81	271	409
1972	6,765	92	392	603
1973	6,881	64	455	544
1974	6,549	64	429	464
1975	7,012	87	555	587
1976	7,789	110	631	556
1976, July-Sept. ..	1,882	45	153	(OC)
1977	7,825	175	527	495
1978	9,053	223	409	394
1979	8,944	135	586	365

Year	Korea	Philippines	Vietnam 1/	Other countries
1970 2/	596	6,426	1,115	
1971	568	3,704	1,022	
1972	868	3,764	1,046	
1973	1,305	3,179	1,334	
1974	1,127	3,418	1,047	
1975	1,476	2,913	196	1,198
1976	1,515	3,222	341	1,414
1976, July-Sept. ..	278	859	(OC)	547
1977	1,488	3,568	137	1,435
1978	965	4,398	1,136	1,528
1979	1,192	5,016	286	1,364

OC Included with "other countries."

1/ Data exclude Vietnamese refugees still in parole status at the end of each reporting period. Such persons are counted when adjusted under the Immigration and Nationality Act.

2/ Because of a change in tabulation procedures in 1970, officials have noted the possibility of some double-counting in the data for this year.

Source: U.S. Immigration and Naturalization Service, Annual Report for 1970-1977, and records.

Table 29.-- PERSONS NATURALIZED, BY COUNTRIES OF FORMER ALLEGIANCE: 1970 TO 1979

[Years ended June 30 through 1976, 3-month period ended September 30, 1976, and years ended September 30, 1977 and later.]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	All other
1970	2,658	110	199	902	110	1,337
1971	2,135	114	221	853	70	877
1972	2,389	230	236	1,096	64	763
1973	2,099	226	260	944	72	597
1974	2,833	238	310	1,505	78	702
1975	3,094	268	537	1,530	97	662
1976	3,130	278	649	1,462	107	634
1976, 3 mo. ..	1,118	97	161	593	53	214
1977	4,532	373	699	2,479	135	846
1978	3,672	289	611	2,055	85	632
1979	4,384	500	771	2,251	101	761

Source: U.S. Immigration and Naturalization Service, Annual Report for 1970-1977 and records.

Table 30.-- IN-MIGRATION, TOTAL AND CIVILIAN, BY ORIGIN: 1971 TO 1980

[Hawaii residents reporting different state or country of residence 1 year prior to survey. Excludes persons in institutions or military barracks.]

Military status and year surveyed	Number, 1 year old and over			Percent of surveyed population 1/		
	All in-migrants	From U.S. Mainland	From other countries 2/	All in-migrants	From U.S. Mainland	From other countries 2/
Total:						
1971	63,452	51,693	11,759	8.3	6.8	1.5
1972	51,818	41,043	10,775	6.6	5.2	1.4
1973	52,267	43,608	8,659	6.4	5.4	1.0
1974	43,233	34,007	9,226	5.3	4.2	1.1
1975	43,955	34,468	9,487	5.2	4.1	1.1
1976	42,977	33,611	9,366	5.0	3.9	1.1
1977	50,403	41,310	9,093	5.9	4.8	1.1
1978	49,295	39,970	9,325	5.7	4.6	1.1
1979	42,690	33,646	9,044	4.9	3.9	1.0
1980	37,312	30,082	7,230	4.0	3.2	0.8
Civilian: 3/						
1971	30,103	22,333	7,770	4.6	3.4	1.2
1972	22,902	16,948	5,954	3.3	2.5	0.8
1973	21,682	16,762	4,920	3.1	2.4	0.7
1974	19,740	13,402	6,338	2.7	1.8	0.9
1975	20,557	13,886	6,671	2.8	1.9	0.9
1976	27,042	20,176	6,866	3.5	2.6	0.9
1977	25,477	19,555	5,922	3.4	2.6	0.8
1978	26,041	19,820	6,221	3.4	2.6	0.8
1979	22,191	15,278	6,913	2.8	1.9	0.9
1980	18,471	13,255	5,216	2.2	1.6	0.6

1/ Base includes persons under 1 and those not reporting residence one year earlier.

2/ Includes U.S. territories and possessions.

3/ Excludes military dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulations.

Table 31.-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1980

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 14,174 persons.]

Place of residence one year earlier	All groups	Armed forces	Military dependents	Other civilians
Population 1 and over	915,841	35,098	59,604	821,138
Same house	784,765	20,916	40,907	722,942
Different house, same island	79,654	6,937	6,848	65,869
Different island	5,725	-	84	5,641
Different state	30,082	6,279	10,549	13,255
U.S. territory or possession	944	168	419	358
Different country	6,286	714	714	4,858
Previous residence not reported .	8,384	84	84	8,216
Migrants 1/	37,312	7,161	11,682	18,471
Percent of number reporting ...	4.1	20.5	19.6	2.3

1/ From different state, territory, or country.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases and accidents, nutrition, substance abuse, hospitals, dental care, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth was 74 years for males and 78 years for females in 1975. The crude death rate in 1980 was only 5.4 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 10.8 in 1979. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for over one-fifth. The 1980 crude birth rate was 18.7 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,821 in 1975. Over 99 percent of all babies were born in hospitals in 1979, and over one-fifth were born to military couples. One out of six births was illegitimate. There were 8,238 fetal deaths in 1980, including 6,462 elective abortions. Marriages numbered 11,856 in 1980, with about 23 percent accounted for by nonresidents. Divorces reached a 1980 total of 4,438. The State had 24 acute care civilian hospitals (with 2,330 beds), 49 skilled nursing and intermediate care facilities (with 3,185 beds), 22 special treatment facilities (with 531 beds) and 277 care homes (with 1,444 beds) in 1979. There were 1,781 physicians and surgeons, 627 dentists, 6,024 professional nurses, and 384 pharmacists licensed and living in Hawaii as of March 1981. Acute conditions per 100 persons numbered 209 in 1979, with respiratory conditions the most common complaint (at 139 cases per 100 persons). Among chronic conditions reported in the 1979 survey data, the most frequently mentioned were hypertension without heart involvement (6.7 per 100 persons), hay fever (5.4), and asthma (3.7). The most common communicable disease reported to authorities in 1979 was gonorrhea, with 4,373 cases. State mental health facilities served 10,713 patients in 1979, but the number of in-patients at the end of the year was only 333. Dental health was only fair: according to a 1979 survey, 275,000 had not visited a dentist within the previous year, and 176,000 persons reported one or more dental problems, chiefly cavities. Among persons 12 years old and over in 1979, 55 percent had used alcohol in the preceding month, 33 percent had smoked cigarettes, 14 percent had used marijuana, and 5 percent had used cocaine.

Major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health and various publications of the U.S. Public Health Service. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 4 of the Statistical Abstract of the United States: 1980 contain similar data for the nation as a whole.

Table 32.-- BIRTHS AND DEATHS: 1970 TO 1980

[Place of occurrence basis.]

Calendar year	Births	Deaths 1/	Rates per 1,000 resident population 2/		Rates per 1,000 live births		
			Births	Deaths 1/	Illegitimate births	Fetal deaths 3/	Infant deaths 4/
1970 ...	16,467	4,197	21.2	5.4	95.8	20.6	19.1
1971 ...	15,845	4,351	19.8	5.4	88.4	23.5	16.0
1972 ...	15,413	4,483	18.8	5.5	93.0	22.8	17.5
1973 ...	15,358	4,579	18.3	5.4	104.0	16.4	13.7
1974 ...	15,528	4,598	18.1	5.3	108.8	16.3	16.0
1975 ...	15,766	4,572	18.0	5.2	123.2	18.9	13.7
1976 ...	16,409	4,717	18.3	5.3	125.0	20.8	11.2
1977 ...	16,983	4,725	18.6	5.2	143.3	21.6	12.3
1978 ...	16,762	4,860	17.9	5.2	160.1	13.5	12.0
1979 ...	17,568	5,138	18.3	5.4	163.5	13.1	10.9
1980 ...	18,216	5,204	18.7	5.4	175.6	15.3	10.8

1/ Includes armed forces.

2/ Based on provisional intercensal estimates in the Hawaii State Department of Planning and Economic Development, "Provisional Intercensal Population Estimates, 1970-1980" (Statistical Memorandum 81-4, May 22, 1981), table 1.

3/ 20 weeks gestation and over. Includes elective abortions.

4/ Under 1 year of age.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R & S Report, No. 5 (June 1974); Statistical Report for 1973-1980.

Table 33.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1970 TO 1980

[Place of occurrence basis.]

Subject	All groups	Armed forces	Civilians			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1970	16,467	-	16,467	3,828	12,639	3,828
1971	15,845	--	15,845	3,668	12,177	3,668
1972	15,413	-	15,413	3,543	11,870	3,543
1973	15,358	-	15,358	3,739	11,619	3,739
1974	15,528	-	15,528	3,774	11,754	3,774
1975	15,766	-	15,766	3,821	11,945	3,821
1976	16,409	-	16,409	3,803	12,606	3,803
1977	16,983	-	16,983	3,771	13,212	3,771
1978	16,762	-	16,762	3,656	13,106	3,656
1979	17,568	-	17,568	3,797	13,771	3,797
1980 1/	18,216	-	18,216	3,750	14,466	3,750
Deaths:						
1970	4,197	72	4,125	139	3,986	211
1971	4,351	47	4,304	150	4,154	197
1972	4,483	50	4,433	160	4,273	210
1973	4,579	70	4,509	169	4,340	239
1974	4,598	49	4,549	165	4,384	214
1975	4,572	83	4,489	153	4,336	236
1976	4,717	67	4,650	161	4,489	228
1977	4,724	76	4,648	157	4,491	233
1978	4,852	80	4,772	147	4,625	227
1979	5,137	85	5,052	155	4,897	240
1980 1/	5,204	69	5,135	154	4,981	223
Birth rate: 2/						
1970	20.5	-	22.0	66.2	18.3	34.5
1971	19.1	-	20.3	59.0	17.0	32.5
1972	17.9	-	19.1	53.5	16.0	30.0
1973	17.2	-	18.5	53.2	15.2	29.1
1974	17.0	-	18.1	55.3	14.9	30.0
1975	16.9	-	18.0	60.0	14.7	31.1
1976	17.1	-	18.2	56.8	15.1	30.5
1977	17.2	-	18.2	58.0	15.2	31.0
1978	16.4	-	17.4	59.8	14.5	30.6
1979	16.7	-	17.7	58.9	14.9	31.0
1980 1/	17.3	-	18.4	58.6	15.6	30.0

Continued on next page.

Table 33.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1970 TO 1980 - Con.

[Place of occurrence basis.]

Subject	All groups	Armed forces	Civilians: All civilians	Civilians: Military dependents	Civilians: Other civilians	Armed forces and dependents
Death rate: 2/						
1970	5.2	1.4	5.5	2.4	5.8	1.9
1971	5.2	0.9	5.5	2.4	5.8	1.7
1972	5.2	1.0	5.5	2.4	5.8	1.8
1973	5.1	1.2	5.4	2.4	5.7	1.9
1974	5.0	0.9	5.3	2.4	5.5	1.7
1975	4.9	1.4	5.1	2.4	5.3	1.9
1976	4.9	1.2	5.1	2.4	5.4	1.8
1977	4.8	1.3	5.0	2.4	5.2	1.9
1978	4.8	1.4	5.0	2.4	5.1	1.9
1979	4.9	1.5	5.1	2.4	5.3	2.0
1980 1/	4.9	1.1	5.2	2.4	5.4	1.8

1/ Preliminary.

2/ Per 1,000 de facto population. Based on population estimates in the Hawaii State Department of Planning and Economic Development, "Provisional Intercensal Population Estimates, 1970-1980" (Statistical Memorandum 81-4, May 22, 1981), tables 1 and 2.

Source: Hawaii State Department of Planning and Economic Development, Fluctuations in Island Birth Rates and Some of Their Consequences (Hawaii Economic Research Reports, 1980), table 5; Hawaii State Department of Health, Statistical Report (annual), and records. Deaths of military dependents based on an assumed rate of 2.41, as calculated from 1970 data on the age composition of military dependents and age-specific death rates for the total civilian population.

Table 34.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1975

Type of rate and military status 1/	1960	1970	1975
Crude birth rate, all groups 2/	27.2	21.4	18.1
Civilian	22.9	19.1	15.9
Military	48.8	35.1	31.0
General fertility rate, all groups 3/	127.8	96.1	77.9
Civilian	106.2	84.8	66.6
Military	250.5	169.5	165.4
Total fertility rate, all groups 4/	3,886.5	2,728.5	2,095.0
Civilian	3,360.5	2,461.5	1,821.5
Military	6,480.5	4,275.0	4,130.5
Gross reproduction rate, all groups 5/ ...	1,884.0	1,318.0	1,017.0
Civilian	1,628.0	1,189.5	885.5
Military	3,140.0	2,065.5	2,007.0

1/ Military dependents are included in the military category.

2/ The annual number of live births per 1,000 resident population in the group.

3/ The annual number of live births per 1,000 women of childbearing age.

4/ The average number of children to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years. Equals the sum of single year age-specific birth rates.

5/ The average number of girls to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years. Equals the sum of single year female age-specific birth rates.

Source: Calculations by Eleanor C. Nordyke of the East-West Population Institute in the Hawaii State Department of Planning and Economic Development, Fluctuations in Island Birth Rates and Some of Their Consequences (1980), pp. 43-44.

Table 35.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1969, 1978, AND 1979

[Excludes births to Hawaii residents occurring out of state.]

Subject	1969 1/	1978	1979
Number of resident births	15,550	16,717	17,513
Rate per 1,000 population	20.7	18.6	19.1
Percent on Oahu	84.4	77.8	78.2
Percent attended by M.D. in hospital	99.5	98.6	98.3
Males per 100 females	106.3	110.3	106.2
Percent of mixed race 2/	41.6	46.6	47.7
Median weight of single births (grams)	3,232	3,400	3,282
Percent premature (under 2,500 grams)	8.8	7.4	7.2
Percent single births under 40 weeks gestation	(NA)	47.6	48.0
Percent plural	1.8	1.7	1.6
Percent with 1 or more congenital malformations	1.1	0.9	1.0
Percent illegitimate	9.4	16.0	16.4
Percent with prenatal visit in first three months	65.0	71.6	74.6
Percent first child born to mother	37.5	34.5	33.5
Percent first child born alive to mother	(NA)	42.4	42.3
Median age of mothers (years)	25.0	25.7	25.9
Median age of known fathers (years)	28.2	28.6	28.7

NA Not available.

1/ Place of occurrence basis, except number of resident births, birth rate, sex ratio, and percent illegimate.

2/ All Part Hawaiian babies are classified as mixed. Base excludes births with unknown parentage.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 36.-- MOST COMMON NAMES ON BIRTH CERTIFICATES: 1909-1914, 1950, AND 1980

Sex and rank	1980 1/		1950	1909-1914
	Name	Number		
Boys' names:				
1	Michael	236	John	John ....
2	Jason	210	Michael	William ......
3	Christopher	188	Robert	George ....
4	David	167	William	Antonio ......
5	James	141	Dennis	Joseph ....
Girls' names:				
1	Jennifer	222	Linda	Maria ....
2	Michelle	123	Kathleen	Mary ....
3	Melissa	97	Sharon	Amelia ....
4	Nicole	94	Carol	Helen ....
5	Jessica	86	Charlene	Elizabeth ....

1/ A total of 5,148 first names (including variant spellings) was reported for the 18,216 babies born in Hawaii in 1980. There were 2,082 boys' names and 3,066 girls' names.

Source: Hawaii State Department of Health, Research and Statistics Office, printout of 1980 records; Bob Krauss, "Today's lesson: the name game," Honolulu Advertiser, September 14, 1979, p. A-3.

Table 37.-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE DIRECTORY: 1969 AND 1981

Rank	1981		1969: name
	Name	Column-inches	
1	Lee	195	Lee ....
2	Wong	172	Wong ....
3	Young	116	Chun ....
4	Chang	111	Young ....
5	Chun	101	Chang ....
6	Smith	101	Ching ....
7	Kim	91	Nakamura ....
8	Ching	89	Smith ....
9	Nakamura	86	Lum ....
10	Lum	81	Yamamoto; Johnson.

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 25, 1969, p. A-11, and January 29, 1981, p. C-1.

Table 38.-- CHARACTERISTICS OF RESIDENT DEATHS: 1969, 1978, AND 1979

[Excludes deaths of Hawaii residents occurring out of state.]

Subject	1969	1978	1979
Number of resident deaths	4,056	4,508	4,791
Rate per 1,000 population	5.4	5.0	5.2
Percent on Oahu 1/	73.1	73.8	74.5
Males per 100 females 1/	161.3	151.8	148.0
Median age (years) 1/ 2/	65.8	68.8	68.7
Number of deaths under 1 year 2/	298	185	179
Per 1,000 live births 2/	19.0	11.1	10.2
Fetal deaths 3/	1,199	7,273	7,700
Per 1,000 deliveries	72	303	305
Fetal deaths, 20 or more weeks gestation 2/ 3/	215	226	230
Per 1,000 live births 2/ 3/	13.7	13.5	13.1
Standard fetal deaths 4/	1,180	1,467	1,683
Elective abortions	19	5,806	6,017
Per 1,000 live births	1.2	347	344

1/ Data for 1969 exclude armed forces.
2/ Data for 1969 are on a place of occurrence basis.
3/ Includes elective abortions.
4/ Excludes elective abortions.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 39.-- CAUSE OF DEATH: 1959, 1969, AND 1979

[Place of residence basis. Data for 1959 and 1969 exclude armed forces.]

Cause of death 1/	Number, 1979	Percent distribution			Rate per 100,000 population		
		1979	1969	1959	1979	1969	1959
All causes	4,791	100.0	100.0	100.0	523.8	598.8	542.9
Diseases of the heart ..	1,533	32.0	33.1	32.6	167.6	198.2	177.1
Malignant neoplasms	1,104	23.0	18.4	18.0	120.7	110.5	97.7
Cerebrovascular diseases	369	7.7	8.7	8.2	40.3	51.9	44.3
All accidents	332	6.9	5.9	5.0	36.3	35.4	27.4
Influenza and pneumonia	158	3.3	5.0	3.7	17.3	29.8	19.9
Diabetes mellitus	128	2.7	3.0	2.6	14.0	17.8	13.9
Suicide	128	2.7	1.8	1.3	14.0	11.0	7.0
Perinatal conditions ...	78	1.6	4.1	8.6	8.5	24.4	46.8
Cirrhosis of liver	76	1.6	1.5	1.3	8.3	9.1	7.2
Congenital anomalies ...	61	1.3	2.0	2.6	6.7	12.0	14.0
Homicide and legal intervention	61	1.3	0.8	0.6	6.7	5.1	3.0
Bronchitis, emphysema and asthma	48	1.0	1.8	0.6	5.2	10.7	3.2
All other causes	715	14.9	13.9	14.9	78.2	83.2	81.3

1/ The leading causes of death in 1979, listed according to rank.

Source: Hawaii State Department of Health, Statistical Report, 1979, p. 21.

Table 40.-- SHARK ATTACKS: 1880 TO 1980

Years	Total attacks	Fatal attacks
1880 to 1909	6	5
1910 to 1939	8	4
1940 to 1969	27	10
1970 to 1980	11	2

Source: George H. Balazs and Alan K. H. Kam, "A Review of Shark Attacks in the Hawaiian Islands," *'Elepaio*, Vol. 41, No. 10, April 1981, pp. 97-106.

Table 41.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1969 TO 1979

Method	1969	1978	1979	Percent distribution		
				1969	1978	1979
All methods	4,214	4,860	5,138	100.0	100.0	100.0
Burial	2,190	2,255	2,322	52.0	46.4	45.2
Cremation	1,542	1,995	2,180	36.6	41.0	42.4
Removal	451	574	582	10.7	11.8	11.3
Entombment	20	21	38	0.5	0.4	0.7
Educational purpose .	2	-	-	0.0	0	0
Other	1	6	5	0.0	0.1	0.1
Unknown	8	9	11	0.2	0.2	0.2

Source: Hawaii State Department of Health, *Statistical Report* (annual) and records.

Table 42.-- SELECTED LIFE TABLE VALUES: 1975

Exact age in years (x)	Average expectation of life in years (e_x)		Number surviving to specified age per 1,000 born alive (l_x)	
	Male	Female	Male	Female
Birth	74.03	77.85	1,000	1,000
Age 25	51.36	54.36	966	980
Age 45	32.97	35.32	929	958
Age 65	17.43	17.94	768	863

Source: Hawaii State Department of Health, "Life Tables by Ethnic Group for Hawaii, 1920-1970" (by Chai Bin Park, Robert W. Gardner, and Eleanor C. Nordyke), R & S Report, No. 26, June 1979, p. 27.

Table 43.-- ACUTE CONDITIONS: 1979

Condition	Incidences of condition	Incidence per 100 persons
All acute conditions	1,840,801	209.2
Infective parasitic diseases	124,208	14.1
Respiratory condition	1,221,329	138.7
Upper respiratory	824,385	93.7
Influenza	346,947	39.4
Other respiratory condition ...	49,997	5.7
Digestive system condition	32,894	3.7
Injuries	244,357	27.7
All other acute conditions	218,013	24.7

Source: Hawaii State Department of Health, Statistical Report, 1979, p. 65.

Table 44.-- CHRONIC CONDITIONS: 1979

Selected chronic conditions	Incidences of condition	Incidence per 1,000 persons
Heart condition	18,437	20.9
Impairments of back or spine	30,453	34.6
Hypertension without heart involvement	58,783	66.8
Arthritis/rheumatism	23,028	26.2
Hearing impairment	22,960	26.1
Asthma with or without hayfever	32,149	36.5
Diabetes	19,408	22.1
Mental and nervous condition	8,459	9.6
Visual impairment	9,201	10.5
Malignant neoplasms	5,380	6.1
Chronic and allergic skin conditions	21,057	23.9
Chronic sinusitis	17,629	20.0
Hayfever without asthma	47,890	54.4
Stomach ulcer	7,288	8.3
Bronchitis/emphysema	8,068	9.2
Benign and unspecified neoplasms	6,005	6.8
Hemorrhoids	10,859	12.3
Thyroid/goiter	4,564	5.2
Varicose veins	3,679	4.2
Gout	9,984	11.3

Source: Hawaii State Department of Health, Statistical Report, 1979, p. 57.

Table 45.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1979

Type of limitation	Number
Persons with one or more chronic conditions	305,893
No limitation of activity	250,741
Limited, but not in major activity	24,115
Limited in amount or kind of activity	20,136
Unable to carry on major activity	10,901
Restricted days in past 12 months 1/	14,570,930
Per person 2/	16.6
Bed days in past 12 months	4,530,957
Per person 2/	5.1
Work days lost by persons 17 years of age and older in past 12 months	2,155,186
Per employed person 17 years and older 2/	5.5
School days lost by persons 6 to 16 years of age in past 12 months	744,402
Per pupil 6 to 16 years of age 2/	4.4

1/ A restricted activity day is one in which a person had to cut down on his usual activity for all or most of the day.

2/ Base includes persons without chronic or acute conditions or restricted activities.

Source: State Department of Health, Statistical Report, 1979, pp. 64, 68 and 69.

Table 46.-- SPECIFIED COMMUNICABLE DISEASES: 1969, 1978, AND 1979

Disease	Cases			Deaths		
	1969	1978	1979	1969	1978	1979
All reportable diseases ..	11,558	11,079	11,957	44	16	30
Chickenpox	1,655	685	835	-	-	2
Gonorrhea	996	3,409	4,373	-	-	-
Hepatitis, infect. and serum ..	144	253	242	4	2	1
Influenza	1,391	352	464	6	-	6
Leprosy	9	31	33	2	1	1
Measles (Rubeola)	53	9	68	-	-	-
Measles, German (Rubella)	1,129	13	16	-	-	-
Meningitis, all types	68	94	141	6	4	6
Mumps	627	38	117	-	-	-
Salmonellosis	463	485	406	-	-	-
Scarlet fever, other strep. ...	4,069	4,959	4,348	-	-	-
Syphilis	87	105	196	-	-	-
Tuberculosis	306	290	311	18	8	14
All others	561	356	407	8	1	-

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 47.-- LEPROSY PATIENTS REGISTERED: 1975 TO 1979

Subject	1975	1976	1977	1978	1979
Patients on register, Dec. 31 ..	405	421	421	437	458
Medically released	400	417	417	434	458
At home	264	284	288	304	328
Kalaupapa	135	131	128	127	124
Hale Mohalu or Leahi	1	2	1	3	6
Not medically released	5	4	4	3	-
Net annual increase	12	16	-	16	21
New cases added	30	34	27	31	33
Cases returned to register ...	5	6	3	2	2
Deaths	11	6	5	5	5
Left the State	10	15	14	10	1
Discharged	2	3	11	2	8

Source: Hawaii State Department of Health, Statistical Report, 1979, p. 89.

Table 48.-- PERSONS 12 YEARS OLD AND OVER WHO HAD EVER USED SPECIFIED SUBSTANCES: 1979

[Based on anonymous questionnaires completed by 3,127 household members on six major islands.]

Substance	12 years old and over		12 to 17 years old: percent	18 to 25 years old: percent	26 years old and over: percent
	Number (1,000)	Percent			
Coffee	661	93.5	83.4	91.8	96.1
Cigarettes	427	60.5	35.2	63.5	64.9
Alcohol	560	79.2	52.1	87.2	82.8
Marijuana	222	31.4	31.8	55.7	24.7
Over the counter drugs	235	33.2	35.8	35.9	31.9
Sedatives	96	13.5	6.1	21.3	12.9
Stimulants	90	12.8	3.5	17.9	13.3
Tranquilizers	178	25.2	5.8	26.7	28.9
Inhalants	55	7.8	10.9	15.9	4.9
Opiates	232	32.8	19.0	37.9	34.4
Hallucinogens	77	10.8	4.2	25.3	8.3
PCP	38	5.3	3.6	14.2	3.3
Cocaine	89	12.6	5.1	27.1	10.2
Heroin	20	2.8	0.4	5.6	2.6
Stimulants 1/	44	6.3	1.7	12.2	5.6
Sedatives 1/	46	6.6	3.8	16.1	4.5
Tranquilizers 1/	43	6.0	3.4	12.4	4.9
Over the counter 1/	24	3.4	2.5	4.9	3.2
Opiates 1/	24	3.4	1.6	7.9	2.5

Footnote and source follow next table.

Table 49.-- PERSONS 12 YEARS OLD AND OVER WHO HAD USED SPECIFIED SUBSTANCES IN THE PRECEDING MONTH: 1979

[Based on anonymous questionnaires completed by 3,127 household members on six major islands.]

	12 years old and over		12 to 17 years old: percent	18 to 25 years old: percent	26 years old and over: percent
Substance	Number (1,000)	Percent			
Coffee	576	81.5	53.9	73.7	89.4
Cigarettes	235	33.3	15.3	40.0	35.2
Alcohol	389	55.1	27.4	68.2	57.3
Marijuana	102	14.4	17.9	30.7	9.2
Over the counter drugs .	45	6.4	10.1	6.7	5.5
Sedatives	21	3.0	0.9	5.1	3.0
Stimulants	14	1.9	0.9	3.0	2.0
Tranquilizers	44	6.2	1.5	5.5	7.0
Inhalants	9	1.2	2.9	1.2	0.8
Opiates	39	5.5	6.1	5.9	5.5
Hallucinogens	10	1.4	1.8	4.2	0.5
PCP	3	0.4	0.8	1.2	0.1
Cocaine	33	4.7	2.5	12.6	3.0
Heroin	2	0.3	0	1.1	0.2
Stimulants 1/	8	1.1	0.7	3.0	0.7
Sedatives 1/	9	1.2	0.5	3.8	0.7
Tranquilizers 1/	8	1.1	0.7	3.1	0.7
Over the counter 1/	6	0.8	0.3	1.3	0.7
Opiates 1/	5	0.7	1.0	1.5	0.4

1/ Non-medical use.

Source: Hawaii State Department of Health, Mental Health Division, Alcohol and Drug Abuse Branch, Hawaii State Survey on Substance Abuse - 1979. Preliminary Findings (December 1980), tables 7 and 13.

Table 50.-- ACUTE CARE HOSPITALS, BY ISLANDS: 1979

Island	Number of hos-pitals	Licensed beds	Admis-sions 1/	Average daily census 2/	Average length of stay 2/ (days)	Average daily percent occu-pancy 2/
State 3/	25	2,850	132,381	2,030.8	5.6	71.3
Oahu 3/	13	2,253	110,387	1,754.1	5.8	(NA)
Civilian only 4/ ..	12	1,733	73,954	1,337.2	6.6	77.2
Hawaii	5	265	10,447	114.5	4.0	43.2
Kauai	3	143	4,634	71.1	5.6	49.7
Maui	2	158	6,400	87.7	5.0	55.5
Molokai	1	25	439	2.8	2.3	11.2
Lanai	1	6	74	0.6	2.9	1.0

NA Not available.

1/ Estimated by Hawaii State Department of Planning and Economic Development.

2/ Estimated (except Hawaii and Molokai).

3/ Includes Tripler Army Medical Center.

4/ Excludes Tripler.

Source: Hawaii State Health Planning and Development Agency, Hawaii Inpatient Utilization 1975-79 and Projections for 1980-85, Hawaii Inpatient Facilities Utilization Working Paper #1 (November 1980).

Table 51.-- SKILLED NURSING, INTERMEDIATE CARE AND SPECIAL TREATMENT FACILITIES, CARE HOMES, AND BEDS, BY ISLANDS: 1979

[Data are only for civilian facilities licensed by the Hospital and Medical Facilities Branch of the Hawaii State Department of Health.]

Category and island	Total, all facilities	Skilled nursing, intermediate care facilities	Special treatment facilities 1/	Care homes: Residential 2/	Care homes: Family 3/
NUMBER OF FACILITIES					
State total ..	348	49	22	14	263
Oahu	274	29	15	10	220
Hawaii	24	8	2	1	13
Kauai	28	5	3	3	17
Lanai	2	2	-	-	-
Maui	16	4	2	-	10
Molokai	4	1	-	-	3
NUMBER OF BEDS					
State total ..	5,160	3,185	531	453	991
Oahu	3,974	2,304	453	386	831
Hawaii	482	400	22	14	46
Kauai	267	121	29	53	64
Lanai	8	8	-	-	-
Maui	411	346	27	-	38
Molokai	18	6	-	-	12

1/ These include alcohol and drug abuse treatment centers, centers for runaway children, and facilities for physically or emotionally disturbed individuals.

2/ Five or more beds.

3/ Four or fewer beds.

Source: Hawaii State Department of Health, Statistical Report, 1979, pp. 138-140.

Table 52.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1977 TO 1979

Year	Patients active, end of period			Admissions		Termina-tions	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1977 ..	6,905	226	6,679	5,453	5,171	5,529	11,806
1978 ..	6,886	263	6,623	5,441	5,068	5,522	11,642
1979 ..	6,392	333	6,059	4,564	4,265	5,057	10,713

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 53.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY: 1976 TO 1981

[Hawaii State Hospital is the only large psychiatric hospital in Hawaii.]

Year	Number of beds, June 30	Admissions 1/		Patients in hospital	
		Total	First	Average 1/	June 30
1976	235	1,008	484	273	232
1977	199	994	470	243	192
1978	199	737	350	179	169
1979	199	787	315	184	204
1980	199	816	321	226	239
1981	220	804	322	214	222

1/ Year ended June 30.
Source: Hawaii State Hospital, records.

Table 54.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1976 TO 1981

[Waimano Training School and Hospital is the State institution for the mentally retarded.]

Year	Beds, June 30	Admissions 1/	Patients in residence		Patients on leave, June 30
			Average 2/	June 30	
1976	754	10	602	587	546
1977	600	12	529	535	572
1978	600	13	491	482	599
1979	600	13	441	446	613
1980	575	12	437	423	627
1981	575	7	406	397	635

1/ Year ended June 30. Excluding returns from community placement.
2/ Year ended June 30.

Source: Hawaii State Department of Health, Statistical Report (annual); Waimano Training School and Hospital, records.

Table 55.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF RESIDENCE: MARCH 6, 1981

Place of residence	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	2,836	831	8,158	600
Hawaii residents ...	1,781	627	6,024	384
Hawaii	125	54	502	30
Maui	109	29	398	29
Lanai	5	1	12	0
Molokai	4	4	27	2
Oahu	1,476	519	4,864	304
Kauai	62	20	221	19
Niihau	-	-	-	-
Nonresidents	1,055	204	2,134	216

1/ Permanent licenses only. Does not include interns, residents, or the 26 physicians who provided State government services only.

Source: Hawaii State Department of Regulatory Agencies, Professional and Vocational Licensing Division, records.

Table 56.-- DENTAL CARE, BY AGE GROUP: 1979

[Based on a sample of 4,457 persons surveyed in April-June 1979 as part of the Hawaii Health Surveillance Program.]

Subject	All ages 1/	Under 20 years	20 to 39 years	40 to 59 years	60 years and over
Population surveyed	867,755	293,667	300,852	175,113	92,666
Months since last visit:					
Less than 6	312,781	111,515	113,509	63,300	22,983
6 to 12	138,438	52,918	52,923	20,147	12,127
Less than 12, unspecified	114,922	42,132	32,545	28,031	10,119
Over 12	219,379	34,942	84,555	56,284	42,578
Never	55,394	47,244	3,653	2,290	2,118
Unknown	26,842	4,916	13,667	5,061	2,742
Times visited in past 12 months:					
None	247,773	82,186	88,207	58,573	44,695
1	205,081	74,430	68,016	41,523	17,912
2	185,438	75,217	65,186	33,140	11,550
3	62,738	20,937	23,572	14,738	3,491
4	39,981	11,739	16,033	6,794	5,415
5 or more	53,698	14,893	22,840	11,376	4,245
1 or more, unspecified	19,205	9,350	3,330	3,908	2,617
Unknown	26,842	4,916	13,667	5,061	2,742
Services received in past 12 months: 2/					
Checkup	23,601	12,394	6,124	4,272	811
X-Ray	344,731	119,090	133,835	65,831	22,428
Cleaning teeth	434,384	160,282	158,072	83,836	28,742
Fillings	291,238	105,669	114,037	49,970	21,217
Fluoride treatment	155,870	97,968	47,498	8,220	2,183
Extractions	66,266	24,683	25,831	10,512	5,161
Root canal treatment	27,081	3,033	12,894	6,633	4,175
Dentures and/or bridges	35,048	376	7,629	14,641	12,323
Crowns and capping	53,243	8,701	22,939	14,214	7,376
Straightening teeth	16,192	11,913	3,130	1,148	-
Treating gum and/or bone	13,016	867	3,918	5,243	2,987
Other	8,128	4,224	1,796	699	1,409
Unknown	17,642	7,135	4,917	4,189	1,056

Continued on next page.

Table 56.-- DENTAL CARE, BY AGE GROUP: 1979 -- Continued

[Based on a sample of 4,457 persons surveyed in April-June 1979 as part of the Hawaii Health Surveillance Program.]

Subject	All ages 1/	Under 20 years	20 to 39 years	40 to 59 years	60 years and over
Dental problems: 2/					
Cavities	85,192	19,904	44,345	14,491	6,451
Toothache	11,132	1,683	4,666	2,808	1,974
Wisdom tooth	22,066	6,109	13,928	1,513	516
Dentures	32,651	1,547	2,644	12,399	16,061
Crooked teeth or bad bite	33,595	20,436	9,049	2,726	1,384
Disease of gum and/or bone	8,861	452	2,555	4,789	1,040
Other	18,324	5,903	6,918	3,081	2,422
None	636,968	220,371	213,235	135,848	62,908
Unknown	54,917	24,001	18,857	6,063	5,171

1/ Includes 5,456 persons not reporting age.

2/ Some respondents reported two or more categories.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, printout dated January 29, 1981.

Table 57.-- MARRIAGES AND DIVORCES: 1970 TO 1980

[Place of occurrence basis.]

Calendar year	Marriages	Divorces and annulments 1/	Rate per 1,000 resident population		Percent of marriages	
			Marriages	Divorces 1/	Resident grooms	Inter-racial
1970 ...	10,599	2,589	13.7	3.3	69.3	33.7
1971 ...	9,734	3,691	12.2	4.6	77.3	38.7
1972 ...	9,750	3,891	11.9	4.7	81.3	38.6
1973 ...	9,776	4,170	11.6	5.0	84.7	40.6
1974 ...	9,649	4,111	11.2	4.8	84.6	40.1
1975 ...	9,673	4,265	11.0	4.9	84.4	39.6
1976 ...	9,769	4,712	10.9	5.3	82.4	38.8
1977 ...	10,266	4,601	11.2	5.0	79.3	37.5
1978 ...	10,736	4,837	11.4	5.2	77.7	37.9
1979 ...	11,678	5,055	12.2	5.3	78.1	38.2
1980 ...	11,856	4,438	12.2	4.6	77.4	37.6

NA Not available.

1/ Final decrees only. An interlocutory decree of one year was established May 8, 1965, reduced to six months on July 3, 1969, and abolished July 1, 1971.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R & S Report, No. 5 (June 1974); Annual Report, Statistical Supplement for 1970-1980.

Table 58.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1969, 1978, AND 1979

[Place of occurrence basis.]

Subject	1969	1978	1979
MARRIAGES			
Number	9,891	10,736	11,678
Percent on Oahu	86.9	73.0	73.3
Percent Hawaii residents:			
Both bride and groom	64.7	75.2	75.6
One partner only	10.0	5.3	5.1
Neither bride nor groom	25.3	19.4	19.3
Median age (years):			
Groom	24.4	27.9	27.9
Bride	22.8	25.3	25.5
Percent previously married:			
Groom	20.4	36.5	35.5
Bride	21.4	35.3	35.0
DIVORCES AND ANNULMENTS			
Number 1/	2,314	4,837	5,055
Divorces	2,286	4,821	5,042
Annulments	28	10	11
Percent occurring on Oahu	86.9	81.8	80.7
Percent nonresident:			
Husband	12.2	12.4	12.9
Wife	12.3	11.8	12.9
Neither partner	74.3	75.9	74.3
Median age (years):			
Husband	34.8	32.3	32.6
Wife	31.5	29.6	29.9
Percent interracial 2/	37.2	38.6	37.2
Percent with children under 18 years	64.0	54.7	55.0
Median years married	7.6	5.7	6.0

1/ Includes unspecified type of decree (6 in 1978 and 2 in 1979).

2/ For these calculations, marriages where both bride and groom are in the "Other Races" category are classified as non-interracial.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 59.-- AGE DIFFERENCES IN MARRIAGE AND DIVORCE: 1979

[For events occurring in Hawaii, regardless of residence of partners.]

Age difference	Marriages			Divorces	
	Total	First 1/	Others	Number	Ratio 2/
Total	11,678	6,114	5,564	5,055	43.3
Man older:					
20 years or more .	225	22	203	96	42.7
10 to 19 years ...	1,140	193	947	353	31.0
5 to 9 years	2,175	940	1,235	838	38.5
1 to 4 years	4,230	2,849	1,381	2,080	49.2
Both same age	1,228	905	323	616	50.2
Woman older:					
1 to 4 years	1,869	1,005	864	707	37.8
5 to 9 years	607	172	435	188	31.0
10 years or more .	204	28	176	65	31.9
Not available	-	-	-	112	...
Median difference 3/	3.5	2.7	5.1	3.2	...

1/ First marriage for both partners.
2/ Divorces per 100 marriages.
3/ Absolute difference, in years.
Source: Hawaii State Department of Health, records.

Table 60.-- MARRIAGES, BY TYPE OF CEREMONY: 1978 AND 1979

Year married and residence, race, and previous marital status of bride and groom	Type of ceremony				
	All types	Civil	Religious	Not stated	Percent civil
Total marriages	22,414	7,584	14,824	6	33.8
1978	10,736	3,573	7,160	3	33.3
1979	11,678	4,011	7,664	3	34.3
Both Hawaii residents	16,896	6,007	10,883	6	35.6
Bride only	621	165	456	-	26.6
Groom only	559	262	297	-	46.9
Both nonresidents	4,338	1,150	3,188	-	26.5
Resident marriages 1/ .	18,076	6,434	11,636	6	35.6
Unmixed marriages	9,861	3,407	6,451	3	34.6
Interracial marriages	8,215	3,027	5,185	3	36.8
First marriage for both	10,570	3,186	7,379	5	30.1
First for bride	2,184	854	1,330	-	39.1
First for groom	2,192	988	1,204	-	45.1
Remarriage for both	3,130	1,406	1,723	1	44.9

1/ Excludes marriages in which both partners are nonresidents.
Source: Hawaii State Department of Health, records.

Table 61.-- AVERAGE HEIGHTS AND WEIGHTS, BY SEX, FOR THE PERIOD OF RECORD

Group	Stature (cm.) 1/		Weight (lb.)	
	Male	Female	Male	Female
Pre-contact adult burials at Mokapu, Oahu	169.9	158.1	(NA)	(NA)
Pupils in Honolulu schools, 1920-1921:				
6 years old	113.0	112.3	43.0	42.2
9 years old	126.6	126.4	56.1	56.0
12 years old	140.8	143.9	74.3	80.4
15 years old	159.0	154.4	107.5	106.4
18 years old	165.7	157.6	127.2	114.7
Hawaii adults of Japanese ancestry, 1931-1932:				
Born in Japan 2/	158.7	148.5	124.0	113.0
Born in Hawaii 3/	162.8	150.2	127.4	103.3
Single live births: 4/				
1974	(NA)	(NA)	7.2	7.0
1979	(NA)	(NA)	7.3	7.1

NA Not available.
1/ Without shoes.
2/ 20 to 64 years old.
3/ 20 to 49 years old.
4/ Median rather than arithmetic mean.

Source: Charles E. Snow, Early Hawaiians (The University Press of Kentucky, 1974), p. 119; Clark Wissler, Growth of Children in Hawaii (Bernice P. Bishop Museum, 1930), pp. 133-139 (as calculated by DPED from data reported separately by race); H. L. Shapiro, Migration and Environment (Oxford University Press, 1939), pp. 206, 212, 220, and 226; Hawaii State Department of Health, Statistical Report for 1974 (pp. 16-17) and 1979 (pp. 14-15).

Table 62.-- NUTRITION OF STUDENTS, BY GRADE LEVEL: 1979

Subject	Elementary school		Junior high school		Senior high school	
	Male	Female	Male	Female	Male	Female
Students in sample	170	159	145	137	164	115
Mean age (years)	10		13		16	
Mean weight (lb.)	62		99	101	145	120
Mean height (in.)	52		62	62	69	64
Mean daily intake						
Protein (g.)	88	75	104	77	117	74
Vitamin A (R.E.) 1/	1,086	774	924	619	1,115	835
Vitamin C (mg.)	99	94	101	93	156	120
Thiamin (mg.)	1.1	1.0	1.2	1.0	1.5	0.9
Riboflavin (mg.)	2.0	1.7	2.1	1.5	2.6	1.5
Niacin 2/ (mg.)	17	15	20	15	23	14
Calcium (mg.)	943	807	1,063	719	1,200	708
Phosphorus (mg.)	1,337	1,200	1,721	1,206	1,905	1,083
Iron (mg.)	12	10	14	10	15	10
Calories (kcal.)	2,180	1,942	2,654	2,057	3,079	2,028
Breakfast	345		390		356	
Lunch	550		530		529	
Dinner	645		685		732	
Snacks	522		766		1,028	
Sugar (g.)	44	41	61	58	70	57
Cholesterol (mg.)	388	325	466	310	535	297
Fat (g.)	90	82	111	85	128	81
Mean intake as percent of RDA or standard						
Protein	258	221	231	167	209	161
Vitamin A	155	111	92	77	111	104
Vitamin C	220	209	203	186	260	199
Thiamin	95	82	85	90	106	82
Riboflavin	142	120	134	118	151	118
Niacin 2/	108	93	110	97	128	103
Calcium	118	101	89	62	100	59
Phosphorus	167	150	143	100	159	90
Iron	118	104	77	56	83	55
Calories	91	81	98	93	110	97

1/ Retinol Equivalents.

2/ Data exclude the niacin value that could be contributed by tryptophan. Because students in the sample were consuming more than adequate amounts of protein, their niacin levels would be higher than those indicated.

Source: University of Hawaii, Curriculum Research and Development Group, Hawai'i Nutrition Education Needs Assessment, Final Report (May 1980), pp. 19-34.

EDUCATION

This section presents statistics on enrollment in public and private schools, colleges and universities; students graduated and degrees awarded; the highest grade of school completed; school facilities, personnel, and expenditures; and libraries.

Enrollment in elementary, intermediate and high schools in 1980-1981 totaled 202,972, about 1.3 percent less than in the preceding year and 5.8 percent below the all-time high reached in 1971-1972. There were 230 public schools with 8,113 classroom teachers and 165,094 students (81.3 percent of the total). There were also 141 private schools with 2,211 teachers and 37,878 pupils. Students graduating from public and private high schools in 1979-1980 numbered 14,013. Some 49,871 students attended colleges and universities in the State in 1980-1981, including 20,319 on the Manoa Campus of the University of Hawaii, 247 at West Oahu College, 3,504 at UH-Hilo, 19,472 at six community colleges, and 6,329 in four private colleges and universities. Eighty-seven percent of the children 5 and 6 years old were in school in 1970 (compared with 68 percent in 1950), and 53 percent in the 18- and 19-year-old group were enrolled (compared with 36 percent twenty years earlier). The expenditure per pupil in public schools rose from $818 in 1969-1970 to $2,164 in 1979-1980. Among adults, the illiteracy rate dropped from 8.4 percent in 1950 to 1.9 percent in 1970, and by 1979 approximately 21.3 percent of all residents 25 years of age or more could report having completed four or more years of college. The Hawaii State Library System, with 47 locations in all four counties, had 3.3 million books, film reels, phonorecords, and other collections in 1980, with an annual circulation of 5.0 million; the University of Hawaii libraries in the same year counted 2.1 million volumes.

The principal sources of data on education are the U.S. Bureau of the Census, Hawaii State Department of Education, University of Hawaii and private colleges and universities. Historical Statistics of Hawaii, Section 9, contains Island data back to 1820. Section 5 of the Statistical Abstract of the United States: 1980 presents comparable information for the nation as a whole.

Table 63.-- SCHOOLS, TEACHERS, PUPIL MEMBERSHIP, AND HIGH SCHOOL GRADUATES, FOR PUBLIC AND PRIVATE SYSTEMS: 1970-1971 TO 1980-1981

School year	Schools 1/			Teachers 1/		
	Total	Public	Private	Total	Public 2/	Private 3/
1970-71 ...	333	216	117	9,646	7,948	1,698
1971-72 ...	331	219	112	9,828	8,113	1,715
1972-73 ...	341	222	119	9,984	8,187	1,797
1973-74 ...	345	225	120	9,728	7,780	1,948
1974-75 ...	345	225	120	9,643	7,711	1,932
1975-76 ...	344	225	119	9,841	7,860	1,981
1976-77 ...	353	227	126	10,115	8,008	2,107
1977-78 ...	356	228	128	9,972	7,891	2,081
1978-79 ...	365	229	136	9,815	7,930	1,885
1979-80 ...	369	229	140	10,125	8,066	2,059
1980-81 ...	371	230	141	10,324	8,113	2,211

School year	Enrollment or membership 1/			High school graduates		
	Total	Public 4/	Private 5/	Total	Public	Private
1970-71 ...	213,165	180,770	32,395	12,649	10,471	2,178
1971-72 ...	215,524	182,957	32,567	13,304	11,185	2,119
1972-73 ...	214,360	181,587	32,773	13,321	11,147	2,174
1973-74 ...	212,012	178,307	33,705	13,612	11,464	2,148
1974-75 ...	211,702	176,844	34,858	13,545	11,283	2,262
1975-76 ...	212,171	176,232	35,939	13,275	11,080	2,195
1976-77 ...	210,736	174,838	35,898	13,823	11,637	2,186
1977-78 ...	208,830	172,649	36,181	13,867	11,464	2,403
1978-79 ...	206,812	170,515	36,297	14,097	11,637	2,460
1979-80 ...	205,580	168,393	37,187	14,013	11,493	2,520
1980-81 ...	202,972	165,094	37,878	(NA)	(NA)	(NA)

NA Not available.

1/ December data for 1970-1971 and September data thereafter.

2/ Special schools excluded through 1978-1979 but included beginning 1979-1980. Data for 1976-1977 and 1979-1980 revised from 1980 edition, table 52.

3/ Includes special schools for all years.

4/ Includes special schools; excludes pre-kindergarten prior to 1980-1981.

5/ Includes special schools and pre-kindergarten for all years.

Source: Hawaii State Department of Education, data supplied February 4, 1981.

Table 64.-- SCHOOLS, TEACHERS, AND PUPIL MEMBERSHIP, SEPTEMBER 11, 1980, AND HIGH SCHOOL GRADUATES, 1979-1980, FOR PUBLIC AND PRIVATE SYSTEMS, BY ISLANDS

Island	Number of schools			Number of teachers		
	Total	Public	Private	Total	Public	Private
State total	371	230	141	10,324	8,113	2,211
Hawaii	39	29	10	1,057	918	139
Maui	29	19	10	677	555	122
Lanai	1	1	-	29	29	-
Molokai	6	5	1	85	83	2
Oahu 1/	261	157	104	7,854	6,038	1,816
Kauai	20	13	7	454	405	49
Niihau	1	1	-	3	3	-
Special schools 2/ ..	14	5	9	165	82	83

Island	Pupil membership, September 1980 3/			High school graduates, 1979-1980 school year		
	Total	Public	Private	Total	Public	Private
State total	202,972	165,094	37,878	14,013	11,493	2,520
Hawaii	20,347	18,554	1,793	1,512	1,352	160
Maui	13,244	11,167	2,077	953	799	154
Lanai	494	494	-	47	47	-
Molokai	1,580	1,552	28	116	116	-
Oahu 1/	158,032	125,240	32,792	10,663	8,465	2,198
Kauai	8,640	7,696	944	632	631	1
Niihau	46	46	-	-	-	-
Special schools 2/ ..	589	345	244	90	83	7

1/ Excluding special schools.

2/ All of the special schools are located on Oahu.

3/ Pre-kindergarten membership is included in private school data but excluded for public schools.

Source: Hawaii State Department of Education, data supplied February 4, 1981.

Table 65.-- PUPIL MEMBERSHIP, PUBLIC AND PRIVATE,
BY GRADES: SEPTEMBER 11, 1980

Grade	Total	Public	Private
All grades	202,972	165,094	37,878
Nursery	3,260	313	2,947
Kindergarten	14,382	11,631	2,751
1	14,368	11,786	2,582
2	14,210	11,740	2,470
3	14,240	11,813	2,427
4	14,764	12,353	2,411
5	15,080	12,548	2,532
6	14,397	11,828	2,569
7	13,928	10,831	3,097
8	13,757	10,810	2,947
9	15,387	12,514	2,873
10	15,795	12,912	2,883
11	15,437	12,820	2,617
12	14,531	11,954	2,577
Specials	9,436	9,241	195

Source: Hawaii State Department of Education, data supplied February 4, 1981.

Table 66.-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1969-1970 TO 1979-1980

Fiscal year	Expenditures (dollars)		Cost per pupil 1/ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1969-1970	146,753,192	37,564,333	818.19	9,591	179
1970-1971	179,070,294	34,539,101	988.54	10,424	177 1/2
1971-1972	183,830,422	35,269,593	1,007.10	10,459	178 1/2
1972-1973	184,118,840	31,618,093	1,014.02	10,883	174
1973-1974	221,923,654	33,618,196	1,257.40	11,968	176
1974-1975	232,185,601	24,832,512	1,305.00	13,949	178
1975-1976	268,155,310	31,983,000	1,503.39	15,111	178
1976-1977	298,770,753	38,105,500	1,718.34	16,689	175
1977-1978	322,185,202	23,196,000	1,883.79	17,579	175
1978-1979	333,768,126	20,809,000	1,981.35	18,360	173
1979-1980 2/	360,316,441	30,489,000	2,163.62	19,858	163

1/ Based on average daily membership.

2/ Scheduled school days numbered 177; 14 days were missed because of "blue collar strike."

Source: Hawaii State Department of Education, records.

Table 67.-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS: FALL, 1970 TO 1980

Year	All federally-connected pupils		Military dependents	Others
	Number	Percent of total enrollment		
1970	51,435	28.5	27,763	23,672
1971	51,143	28.0	27,962	23,181
1972	47,928	26.4	26,450	21,478
1973	45,144	25.3	25,038	20,106
1974	43,848	24.8	24,066	19,782
1975	45,746	26.0	22,246	23,500
1976	44,393	25.4	21,692	22,701
1977	43,648	25.3	21,167	22,481
1978	43,460	25.5	21,423	22,037
1979 1/	40,745	24.2	20,951	19,794
1980 2/	35,403	21.5	18,405	16,998

1/ Revised.
2/ Preliminary.
Source: Hawaii State Department of Education, Report on Federally Connected Pupils, Hawaii Public Schools (annual), and records.

Table 68.-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS: FALL 1970 TO 1980

[Fall enrollment in regular credit programs, including concurrent registrants and early admits.]

Year (Fall)	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo 1/	West Oahu College 2/
		Total	Under-graduates	Grad-uates	Other 4/		
1970 ..	33,127	21,090	15,810	3,441	1,839	1,741	-
1971 ..	36,368	22,061	16,589	3,913	1,559	2,265	-
1972 ..	38,899	22,371	17,161	4,069	1,141	2,594	-
1973 ..	39,858	22,272	16,905	4,110	1,257	2,784	-
1974 ..	40,719	21,526	16,215	4,059	1,252	3,031	-
1975 ..	44,050	21,260	15,671	4,111	1,478	3,526	-
1976 ..	44,326	21,356	15,370	4,284	1,702	3,322	139
1977 ..	43,888	21,106	15,208	4,280	1,618	3,280	201
1978 ..	43,803	21,225	15,148	4,350	1,727	3,053	234
1979 ..	43,375	20,833	14,902	4,258	1,673	3,099	258
1980 ..	43,542	20,319	14,402	4,244	1,673	3,504	247

Year (Fall)	Community colleges 3/						
	Total	Hono-lulu	Kapio-lani	Lee-ward	Wind-ward 5/	Kauai	Maui
1970 ..	10,296	1,937	2,205	4,469	-	627	1,058
1971 ..	12,042	2,167	2,765	5,177	-	839	1,094
1972 ..	13,934	2,561	3,092	5,373	538	1,023	1,347
1973 ..	14,802	2,774	3,559	5,376	829	1,004	1,260
1974 ..	16,162	3,306	3,654	5,816	1,046	1,031	1,309
1975 ..	19,264	4,017	4,368	6,900	1,153	1,238	1,588
1976 ..	19,509	4,450	4,617	6,450	1,154	1,186	1,652
1977 ..	19,301	4,402	4,494	6,159	1,353	1,245	1,648
1978 ..	19,291	4,386	4,738	5,893	1,415	1,137	1,722
1979 ..	19,185	4,576	4,641	5,540	1,505	1,104	1,819
1980 ..	19,472	4,509	4,978	5,575	1,442	1,082	1,886

Footnotes and source follow next table.

Table 69.-- DEGREES, DIPLOMAS, AND CERTIFICATES CONFERRED BY THE UNIVERSITY OF HAWAII: 1970 TO 1980

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First profes-sional 6/	Other 7/
1970	60	2,329	1,018	53	-	290
1971	41	2,644	1,103	78	-	420
1972	49	2,907	1,167	80	-	404
1973	65	3,050	1,272	98	-	370
1974	85	3,260	1,165	109	-	281
1975	57	3,176	1,110	94	62	213
1976	68	3,070	1,132	116	102	183
1977	58	3,076	1,019	135	113	164
1978	61	3,077	1,007	129	125	157
1979	69	2,785	1,063	122	122	134
1980	46	2,756	969	102	136	124

Year ended June 30	University of Hawaii at Hilo 1/			West Oahu College: bachelor 2/	Community colleges 3/	
	Certifi-cates	Associate degrees	Bachelor degrees		Certifi-cates 8/	Associate degrees
1970	-	-	-	-	378	585
1971	151	45	37	-	424	768
1972	136	99	69	-	347	960
1973	121	124	155	-	439	1,062
1974	83	139	146	-	329	1,179
1975	81	179	189	-	352	1,402
1976	83	230	162	-	414	1,559
1977	93	255	196	6	420	1,598
1978	69	280	206	12	456	1,864
1979	92	255	166	34	509	1,964
1980	86	256	160	48	480	1,807

1/ Includes Hilo College, College of Agriculture, and Hawaii Community College.

2/ Opened Spring 1976.

3/ Excludes Hawaii Community College, part of the University of Hawaii at Hilo

4/ Includes unclassified, special and no data on student level.

5/ Opened for instruction in 1972.

6/ Includes Doctor of Jurisprudence (J.D.) and Doctor of Medicine (M.D.).

7/ Certificates in Dental Hygiene and professional diplomas.

8/ Includes certificates of achievement.

Source: University of Hawaii, Office of Institutional Research and Analysis, data provided January 19, 1981.

Table 70.-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1979 AND 1980

Year and type of enrollment and earned degree	All private institutions	Brigham Young Univ.-Hawaii Campus	Chaminade Univ. of Honolulu	Hawaii Loa College	Hawaii Pacific College
1979					
Fall enrollment 1/	6,133	1,790	2,361	310	1,672
Undergraduate	6,008	1,790	2,236	310	1,672
Graduate	125	-	125	-	-
Other 2/	-	-	-	-	-
Earned degrees conferred: 3/					
Associate	117	13	66	-	38
Bachelor's	549	118	363	20	48
Master's	50	-	50	-	-
Others	-	-	-	-	-
1980					
Fall enrollment 1/	6,329	1,828	2,243	338	1,920
Undergraduate	6,182	1,800	2,124	338	1,920
Graduate	147	28	119	-	-
Other 2/	-	-	-	-	-
Earned degrees conferred: 3/					
Associate	133	21	48	-	64
Bachelor's	510	103	291	24	92
Master's	60	-	60	-	-
Others	-	-	-	-	-

1/ In regular credit programs.
2/ Includes unclassified and special.
3/ Year ended June 30.
Source: Compiled by Hawaii State Department of Planning and Economic Development from college officials.

Table 71.-- FEDERAL SUPPORT TO UNIVERSITIES AND COLLEGES: 1971 TO 1978

[In thousands of dollars. For fiscal years.]

Fiscal year	State total	University of Hawaii at Manoa
1971	19,834	19,011
1972	22,936	22,451
1973	24,251	23,450
1974	30,850	30,412
1975	28,023	26,888
1976	37,615	34,937
1977	34,827	28,465
1978	44,070	25,884

Source follows next table.

Table 72.-- FEDERAL SUPPORT TO UNIVERSITIES AND COLLEGES, BY INSTITUTION AND TYPE OF ACTIVITY: 1978

[In thousands of dollars. For fiscal year.]

Institution	Total, all activities	Academic science		Non-science
		Total academic science	R&D	
All institutions	44,070	28,206	24,864	15,864
Chaminade Univ. of Honolulu	846	-	-	846
Hawaii Community College	312	-	-	312
Hawaii Loa College	121	-	-	121
Hawaii Pacific College	452	-	-	452
U. of Hawaii--Community Colleges	2,054	30	30	2,024
U. of Hawaii at Hilo	1,589	1,256	1,256	333
U. of Hawaii Systems Office	12,812	7,384	6,345	5,428
U. of Hawaii--Manoa	25,884	19,536	17,233	6,348

Source: National Science Foundation, Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1978, Final Report NSF 80-312 (1980), pp. 24, 26, and 79.

Table 73.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, BY AGE: 1980

[Excludes persons in institutions or military barracks or on Niihau or in Kalawao. Based on a sample of 8,354 persons 25 years old and over.]

Years of school completed	25 years old and over	25 to 44 years old	45 to 64 years old	65 years old and over
All levels	532,077	265,781	184,603	81,694
None	4,633	289	1,098	3,246
1 to 4 years	14,032	447	4,484	9,102
5 to 8 years	51,475	4,936	22,218	24,320
9 to 11 years	47,724	14,450	24,027	9,247
12 years	188,020	98,448	72,120	17,452
Vocational	24,920	14,938	8,679	1,304
13 to 15 years	77,021	52,997	19,111	4,914
16 years	72,432	49,370	18,536	4,525
17 years or more	39,655	25,576	10,913	3,166
Not reported	12,165	4,330	3,416	4,418
Median (years) 1/ ...	12.7	13.3	12.5	9.4

1/ Excludes vocational and not reported.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 74.-- STANFORD ACHIEVEMENT TEST RESULTS FOR GRADES 4, 6 AND 8: 1975 TO 1980

[In percent of students taking test. National norms are: above average--23%, average--54%, and below average--23%.]

Grade and year (Fall)	Reading skills			Math skills		
	Above average	Average	Below average	Above average	Average	Below average
Grade 4:						
1975	15	52	33	24	48	28
1976	12	55	33	20	46	34
1977	15	56	29	22	48	30
1978	16	57	27	23	50	27
1979	18	57	25	23	51	26
1980	18	58	24	23	51	26
Grade 6:						
1975	17	54	29	25	50	25
1976	16	55	29	22	47	31
1977	16	55	29	21	47	32
1978	18	57	25	25	50	25
1979	18	59	23	26	50	24
1980	19	60	21	26	51	23
Grade 8:						
1975	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1976	12	55	33	20	46	34
1977	13	54	33	19	45	36
1978	13	54	33	22	51	27
1979	13	55	32	21	51	28
1980	14	56	30	23	51	26

NA Not available.

Source: State Department of Education, Office of the Superintendent, Planning and Evaluation Services Branch, "Summary Report of Grades 4, 6 and 8 Stanford Achievement Test Results, Fall 1979" (December 1979), and records.

Table 75.-- HAWAII STATE LIBRARY SYSTEM LOCATION, PERSONNEL, AND HOURS: 1915 TO 1980

Year	Number of library locations			Personnel 1/		Hours open 2/
	State total	Oahu	Other islands	Librarians	All others	
1915 ..	2	1	1	(NA)	(NA)	(NA)
1920 ..	3	1	2	(NA)	(NA)	72
1925 ..	4	1	3	(NA)	(NA)	72
1930 ..	4	1	3	(NA)	(NA)	(NA)
1935 ..	6	3	3	(NA)	(NA)	60
1940 ..	11	5	6	(NA)	(NA)	64
1945 ..	12	6	6	(NA)	(NA)	64
1950 ..	13	6	7	(NA)	(NA)	72
1955 ..	17	8	9	(NA)	(NA)	68
1960 ..	21	8	13	(NA)	(NA)	72
1965 ..	29	11	18	(NA)	(NA)	72
1970 ..	38	18	20	70	396.20	72
1975 ..	42	20	22	96	312.95	54
1980 ..	47	22	25	122	313.30	54

NA Not available.

1/ Full-time equivalent basis, excluding student help.

2/ Weekly totals for Hawaii State Library, 478 So. King St., Honolulu.

Source: Hawaii State Department of Education, Office of the State Librarian, information submitted January 9, 1981.

Table 76.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM: 1980

District	Library locations, June 30	Personnel, June 30 1/	Circulation, year ended June 30
Total system	47	435.3	5,042,682
Oahu	22	240.5	3,505,160
Hawaii State Library	1	69.0	497,017
Library for the Handicapped ..	1	13.0	38,759
East Oahu Library District ...	12	97.5	2,068,861
West Oahu Library District ...	8	61.0	900,523
Other islands	25	127.3	1,537,522
Hawaii Library District	13	59.3	750,775
Kauai Library District	5	30.0	413,319
Maui Library District 3/	7	38.0	373,428
Administration	...	67.5	...

District	Collections, June 30		
	Books	AVM 2/	Other print
Total system	2,025,200	513,595	797,691
Oahu	1,419,561	466,758	593,237
Hawaii State Library	377,304	365,355	347,355
Library for the Handicapped ..	71,453	49,694	25,060
East Oahu Library District ...	641,073	34,568	164,415
West Oahu Library District ...	329,731	17,141	56,407
Other islands	605,639	46,837	204,454
Hawaii Library District	262,059	17,194	60,883
Kauai Library District	162,824	13,302	104,209
Maui Library District 3/	180,756	16,341	39,362
Administration	...	...	...

1/ Full-time equivalent basis. Data are limited to regular, general funded positions, and exclude student help.

2/ Audio-visual microforms.

3/ Includes libraries on Lanai (1 location), Maui (5 locations), and Molokai (1 location).

Source: Hawaii State Department of Education, Office of the State Librarian, information submitted January 9, 1981.

Table 77.-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1980

Campus	Number of volumes, June 30	Circulation, year ended June 30
All campuses	2,106,712	622,846
University of Hawaii at Manoa	1,736,122	409,285
West Oahu College	11,403	3,058
University of Hawaii at Hilo 1/	142,039	43,332
Community colleges, total 1/	217,148	167,171
Honolulu	42,023	38,998
Kapiolani	31,234	8,833
Leeward	58,674	52,792
Windward	22,493	13,774
Kauai	29,088	23,139
Maui	33,636	29,635

1/ Hawaii Community College is included with the University of Hawaii at Hilo.

Source: University of Hawaii at Manoa, University Libraries, information supplied October 30, 1980.

Section 4

LAW ENFORCEMENT, COURTS AND CORRECTIONS

Statistics in this section refer to crime and delinquency, the police, the judiciary system, prisons, and youth correctional facilities.

Major offenses reported to the police in 1980 numbered 71,000, or almost twice as many as in 1970. The rate per 1,000 population has increased from 53 in 1970 to 72 in 1980. Eighty percent of the 1980 total occurred on Oahu. For the State as a whole, major offenses known to police in 1980 included 84 murders or cases of non-negligent manslaughter, 334 rapes, 1,835 robberies, 634 aggravated assaults, 17,811 burglaries, 45,501 cases of larceny, and 5,903 auto thefts. The value of property reported stolen in 1980 amounted to $32 million, exclusive of motor vehicles; only 6.6 percent was recovered. In 1977, when asked "Have you or your immediate family been a victim of crime (burglary, assault, etc.) in Hawaii since 1970?," forty percent of all Oahu adults and a fourth of all Neighbor Island adults answered affirmatively. Twenty percent of the major offenses known to police were cleared by arrest or otherwise in 1980. Forty-seven percent of the persons arrested for major crimes and 21 percent of those arrested for lesser offenses in 1980 were less than eighteen years of age. Inmates of the ten State correctional institutions averaged 817 during 1980; of this number, 480 were adults serving time for felonies. Cases filed in the State Supreme Court, Intermediate Court of Appeals, four circuit courts, and four district courts and their divisions during fiscal 1980 numbered 760,000, including 727,000 traffic cases. Filings in the United States District Court for Hawaii included 722 civil cases, 1,318 criminal cases, and 670 bankruptcy cases. The last legal execution in Hawaii took place in 1944. Governmental expenditures on the criminal justice system in 1978 amounted to $106 million, more than half of the total going for police protection.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Intake Service Center, and the Administrative Office of the United States Courts. The Hawaii Criminal Justice Statistical Analysis Center issues quarterly and annual reports titled Crime in Hawaii. Figures on crime, the courts, and corrections in earlier years appear in Historical Statistics of Hawaii, Section 10. National data are summarized in the Statistical Abstract of the United States: 1980, Section 6.

Table 78.-- CRIMINAL JUSTICE SYSTEM EXPENDITURE AND EMPLOYMENT: 1978

Subject	Total expenditure ($1,000) 1/	Employment, October		Payroll, October ($1,000)
		Total	Full-time equiv.	
Total	106,461	4,390	4,372	6,120
By level of government: 2/				
State	46,818	1,613	1,606	2,190
Local	61,415	2,777	2,766	3,930
By activity:				
Police protection	56,401	2,651	2,641	3,690
Judicial	15,467	686	680	912
Legal services and prosecution	6,430	289	289	479
Public defense	2,011	53	53	74
Corrections	23,320	629	628	845
Other criminal justice	2,832	82	81	119

1/ Fiscal year ended June 30, 1978.

2/ State and local government expenditures do not add to indicated total, for unspecified reason.

Source: U.S. Department of Justice and U.S. Bureau of the Census, Summary Report, Expenditure and Employment Data for the Criminal Justice System: 1978 (September 1980), pages 14-15, 22-23, and 30-31.

Table 79.-- CRIMINAL JUSTICE SYSTEM CHARACTERISTICS: FISCAL YEARS 1978 AND 1979

Characteristic	1978	1979
Sworn police officers, June 30	1,977	1,976
Police Department personnel, June 30	2,420	2,419
Police Department vehicles, including privately owned	1,571	1,608
Police Department expenditures ($1,000)	49,144	50,992
Calls for Police Department services (1,000)	283	305
County Prosecutor personnel, June 30	80	86
Prosecuting attorneys	42	45
County Prosecutor expenditures ($1,000)	1,880	2,062
County Prosecutor filings processed	20,960	20,968
Judges, June 30:		
Supreme Court	5	5
Intermediate Court of Appeals 1/	-	-
Circuit Court, including Family Court	23	25
District Court	17	18
Judiciary support personnel, June 30	666	690
Probation Officers	79	77
Judiciary expenditures ($1,000)	14,556	15,844
Probation Officer filings	2,403	2,738
Corrections Division personnel	439	446
Corrections Division expenditures ($1,000)	17,513	19,419
Personal services	6,428	7,327
Other operating expenses	2,484	3,453
Capital outlay	8,601	8,639
Corrections Division bedspace available, December 31	...	686
Corrections Division average daily inmate population	592	637

1/ Installed April 14, 1980.

Source: Hawaii Criminal Justice Statistical Analysis Center, Hawaii State Criminal Justice Management and Administrative Statistics (January 1981), and errata sheet.

Table 80.-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTY: 1970 TO 1980

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1970	41,201	5,309	36,779	1,626	993	1,803
1971	42,952	5,362	37,459	1,867	1,326	2,300
1972	37,091	4,480	31,594	2,047	1,195	2,255
1973	41,850	4,918	35,275	2,612	1,596	2,367
1974	51,451	5,934	43,572	3,031	1,732	3,116
1975	51,777	5,857	43,612	3,192	1,777	3,196
1976	55,603	6,164	45,307	3,918	2,172	4,206
1977	57,977	6,329	46,389	4,178	2,127	5,283
1978	63,315	6,815	51,273	4,439	2,406	5,197
1979	65,629	6,908	52,310	4,619	2,472	6,228
1980	71,270	7,325	56,885	5,208	2,637	6,540

1/ Annual rate per 100,000 resident population (including armed forces), July 1, from DPED Statistical Report 147.

Source: County police departments, annual reports and records; Hawaii Criminal Justice Statistical Analysis Center, records.

Table 81.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY COUNTIES: 1980

County	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Percent cleared 1/	
	Part I	Part II 2/	Part I	Part II 2/	Part I	Part II 2/
State total .	72,103	64,435	14,710	58,680	20.4	91.1
Honolulu	57,718	45,038	11,889	48,723	20.6	108.2
Hawaii	5,208	4,760	1,389	2,805	26.7	58.9
Kauai	2,637	2,379	403	634	15.3	26.6
Maui	6,540	12,258	1,029	6,518	15.7	53.2

1/ Data include prior year's offenses; percent cleared may thus exceed 100.0.

2/ Excludes traffic offenses.

Source: Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 82.-- ACTUAL MAJOR OFFENSES KNOWN TO POLICE, FOR THE CITY AND COUNTY OF HONOLULU: 1970 TO 1980

Calendar year	Total Part I offenses	Murder; non-negligent man-slaughter	Man-slaughter (negligent)	Rape	Robbery
1970	36,779	25	3	85	473
1971	37,459	31	46	124	715
1972	31,594	46	31	144	424
1973	35,275	36	50	150	663
1974	43,572	62	84	190	951
1975	43,612	58	99	161	1,037
1976	45,307	40	111	150	1,084
1977	46,389	45	94	177	1,086
1978	51,273	35	114	181	1,478
1979	52,310	49	120	225	1,555
1980	56,885	65	120	257	1,715

Calendar year	Aggravated assault	Burglary	Larceny		Auto theft
			Total	Over $50	
1970	219	10,252	21,481	(NA)	4,241
1971	341	9,599	22,349	9,426	4,254
1972	343	8,943	18,706	7,829	2,957
1973	287	10,838	19,763	8,440	3,488
1974	301	13,040	24,269	10,183	4,675
1975	311	13,287	24,480	10,757	4,179
1976	356	13,509	25,793	11,977	4,264
1977	335	13,134	27,732	13,977	3,786
1978	303	13,712	31,037	16,610	4,413
1979	349	12,664	31,616	17,539	5,732
1980	384	13,705	35,446	20,195	5,193

NA Not available.

Source: Honolulu Police Department, Statistical Report (annual).

Table 83.-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1980

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise		Percent cleared	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	72,103	57,718	14,710	11,889	20.4	20.6
Murder & non-neg. manslaughter	84	65	62	45	73.8	69.2
Manslaughter (neg.) ...	1	-	1	-	100.0	-
Rape	334	264	176	135	52.7	51.1
Robbery	1,835	1,729	611	567	33.3	32.8
Aggravated assault	634	398	372	208	58.7	52.3
Burglary	17,811	13,848	3,601	2,808	20.2	20.3
Larceny over $200	13,965	10,829				
Larceny, $50-$200	12,596	9,888	9,063	7,468	19.9	20.6
Larceny, under $50	18,940	15,472				
Auto theft	5,903	5,225	824	658	14.0	12.6

Source: Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 84.-- PART I OFFENSES CLEARED BY ARREST OR OTHERWISE AND AGE OF PERSONS ARRESTED FOR PART I OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1970 TO 1980

Year	Part I offenses cleared 1/		Persons arrested for Part I offenses			
				Juveniles under 18 years		18 years of age and over
	Number	Percent	Total	Male	Female	
1970 ..	6,437	18	6,405	2,899	995	2,511
1971 ..	8,325	22	6,730	2,770	979	2,981
1972 ..	10,028	32	5,954	2,406	1,035	2,513
1973 ..	8,721	25	6,558	2,623	1,005	2,930
1974 ..	9,727	22	8,043	3,227	1,027	3,789
1975 ..	9,235	21	7,696	3,186	1,134	3,376
1976 ..	12,747	28	8,915	3,647	1,316	3,952
1977 ..	11,460	25	8,429	3,355	1,117	3,957
1978 ..	11,955	23	8,234	3,222	1,064	3,948
1979 ..	10,844	21	8,125	3,051	1,079	3,995
1980 ..	11,522	20	9,151	3,297	1,074	4,780

1/ Major (Part I) offenses cleared by arrest or otherwise, including prior years offenses.

Source: Honolulu Police Department, Statistical Report (annual).

Table 85.-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, FOR THE STATE AND OAHU: 1980

Age and sex	Arrested for Part I offenses		Arrested for Part II offenses (except traffic)	
	State total	Oahu only	State total	Oahu only
Total	11,258	9,348	22,831	18,141
Juveniles	5,334	4,470	4,791	3,570
Male	4,107	3,376	3,244	2,411
Female	1,227	1,094	1,547	1,159
Adults	5,924	4,878	18,040	14,571
Male	4,299	3,455	15,281	12,304
Female	1,625	1,423	2,759	2,267

Source: Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 86.-- VICTIMS OF CRIME: 1970 TO 1977

[Response to questions, "Have you or your immediate family been a victim of crime (burglary, assault, etc.) in Hawaii since 1970?," asked of 2,749 persons 15 years old and over, December 3-7, 1977.]

Place of residence	Sample size	Percent distribution		
		Victims	Not victims	No reply
State total	2,749	36.0	61.2	2.8
Hawaii County	536	22.0	75.9	2.1
Maui County	671	25.8	71.1	3.1
Oahu	986	40.0	57.3	2.7
Kauai	556	23.1	71.6	5.3

Source: Public Affairs Advisory Service, Inc., A Survey of Crime and the Criminal Justice System (Hawaii Commission on Crime, January 1978), pp. 24, 35, 41, 55, 72, 121, and 122.

Table 87.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED (EXCLUSIVE OF AUTOMOBILES), FOR THE CITY AND COUNTY OF HONOLULU: 1970 TO 1980

Year	Value of property reported stolen ($1,000)	Value of stolen property recovered ($1,000)	Percent recovered
1970 ...	4,913.4	237.5	4.9
1971 ...	5,509.7	335.9	6.1
1972 ...	6,249.2	566.7	9.1
1973 ...	7,660.5	980.0	12.8
1974 ...	9,732.7	558.1	5.7
1975 ...	11,628.1	828.1	7.1
1976 ...	14,438.7	1,375.4	9.5
1977 ...	15,473.3	1,496.2	9.7
1978 ...	20,151.1	1,817.2	9.0
1979 ...	21,639.6	1,861.6	8.6
1980 ...	27,605.8	1,427.3	5.2

Source: Honolulu Police Department, Statistical Report (annual).

Table 88.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY, FOR THE STATE AND OAHU: 1980

Type of stolen property	Value of property stolen ($1,000)	Value of stolen property recovered	
		Amount ($1,000)	Percent
All property stolen:			
State total	45,908.4	12,399.2	27.0
Oahu only	38,913.0	10,540.5	27.1
Locally stolen motor vehicles:			
State total	14,075.2	10,296.9	73.2
Oahu only	12,240.8	8,819.9	72.1
Other stolen property:			
State total	31,833.2	2,102.3	6.6
Oahu only	26,672.2	1,720.6	6.5

Source: Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 89.-- FINAL DISPOSITIONS OF ADULT FELONY AND MISDEMEANOR ARRESTS, BY COUNTIES: SEPTEMBER 1, 1979 TO AUGUST 31, 1980

Type of charge and disposition	State total	Honolulu	Hawaii	Kauai	Maui
FELONIES					
Arrests	2,726	2,178	250	110	188
Releases	2,325	1,894	212	81	138
Police 1/	1,926	1,675	158	27	66
Prosecutor	134	49	9	32	44
District Court	17	4	6	2	5
Circuit Court	248	166	39	20	23
Convictions	401	284	38	29	50
Non-prison sentence	310	204	31	27	48
Prison sentence	91	80	7	2	2
Percent convicted	14.6	13.0	15.2	26.4	26.6
Percent prison sentence	3.3	3.7	2.8	1.8	1.1
MISDEMEANORS					
Arrests	9,924	8,172	710	703	735
Releases	3,155	2,505	334	109	207
Police	482	273	142	17	50
Prosecutor	59	4	26	29	-
District Court	2,569	2,207	152	55	155
Circuit Court	45	21	14	8	2
Convictions	6,769	5,667	376	198	528
Percent convicted	68.2	69.3	53.0	64.5	71.8

1/ Releases at this level should not be construed to mean that police do not have enough evidence to charge. In many instances releases occur on advice of prosecutor due to large number of cases pending, to another agency, and pending further investigation and review.

Source: Hawaii Criminal Justice Statistical Analysis Center, Adult Arrest Dispositions in Hawaii, September 1, 1979-August 31, 1980 (January 1981), pp. 15, 17, 21 and 23.

Table 90.-- DISPOSITION OF ADULTS AND JUVENILES ARRESTED FOR PART I AND PART II OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1980

[Approximate data.]

Age group and disposition	Part I offenses	Part II offenses
ADULTS		
Persons arrested	4,780	14,878
Released	1,224	1,133
Charged	3,556	13,745
Guilty as charged	780	4,037
Guilty of a lesser offense	3	25
Disposed of otherwise	1,886	3,185
Dispositions by district and circuit courts	2,629	7,037
Convicted	784	4,027
Fine	341	3,166
Jail	193	246
Probation, suspended sentence	250	615
Other convictions	-	-
Bail forfeitures	14	329
Discharged	1,676	2,238
Stricken N/P	155	443
JUVENILES		
Arrests	4,371	3,634
Released without charges	955	236
Counseled and released	1,714	694
Social agencies	-	52
Family Court	1,663	2,612

Source: Honolulu Police Department, Annual Statistical Report 1980, pp. 45, 46, and 53.

Table 91.-- CHILD ABUSE AND NEGLECT REPORTS, BY ISLAND: 1980

Island	Abuse		Neglect	
	Reports	Confirmed	Reports	Confirmed
State total 1/	1,368	717	859	355
Oahu	1,112	595	604	252
Hawaii	110	42	114	41
Kauai	69	42	80	37
Maui	64	33	49	19
Molokai	11	5	12	6
Lanai	2	-	-	-

1/ Total number of families involved was 1,004.
Source: State Department of Social Services and Housing, Hawaii's Children Need Your Protection (May 1981), vol. 4, no. 1, p. 10.

Table 92.-- MARIJUANA CONFISCATED BY AUTHORITIES, BY COUNTIES: 1979 AND 1980

County	Weight 1/ (tons)		Estimated value ($1,000)	
	1979	1980	1979	1980
State total	67.3	47.7	26,934	19,097
Hawaii	38.0	25.0	15,200	10,000
Maui	4.0	5.0	1,612	2,000
Honolulu	17.0	3.4	6,804	1,377
Kauai	8.3	14.3	3,317	5,720

1/ "Wet" unprocessed weight.
Source: The Judiciary, Hawaii Criminal Justice Statistical Analysis Center, data supplied April 7, 1981.

Table 93.-- UNITED STATES DISTRICT COURT CASES: 1977 TO 1980

[Years ended June 30.]

Subject	1977	1978	1979	1980
Civil cases:				
Filings	462	535	577	722
Terminations	341	402	429	754
Pending, end of period	743	876	1,024	992
Criminal cases: 1/				
Filings (including transfers)	1,035	1,120	1,699	1,318
Terminations	823	1,151	1,307	1,502
Pending, end of period	313	282	674	490
Bankruptcy:				
Commenced, total	564	547	582	670
Voluntary	562	545	579 3/	511
Business 2/	110	125	116	(NA)
Nonbusiness	452	420	463	(NA)
Involuntary	2	2	3 3/	6
Terminations	356	601	438	326
Pending, end of period	594	540	684	1,028

NA Not available

1/ Data include drunk driving and traffic violations reported pursuant to Speedy Trial Act of 1974.

2/ Farmer, professional, merchant, manufacturer, and other business. Excludes employee and other nonbusiness bankruptcies.

3/ Data available only for cases originally filed after October 1, 1979, when the Bankruptcy Reform Act went into effect. These figures, therefore, cover only a nine month period.

Source: Administrative Office of the United States Courts, Annual Report of the Director for 1978 to 1980.

Table 94.-- STATE JUDICIARY TERMINATIONS: 1970 TO 1980

[Fiscal years ended June 30.]

Court and type of case	1970	1971	1972	1973	1974	1975
All courts, total ..	425,009	484,860	547,590	567,514	592,973	604,176
Supreme Court 3/	324	375	315	347	383	405
Civil cases	76	91	72	91	88	69
Criminal cases	19	21	32	39	46	65
Other proceedings	229	263	211	217	249	271
Circuit Courts proper ...	8,045	9,211	8,553	9,323	7,686	9,334
Civil cases	3,035	3,312	3,229	3,029	2,575	3,870
Criminal cases	2,423	1,680	2,081	2,318	1,827	2,097
Felonies 3/	932	1,177	757	879	741	885
Misdemeanors 4/	1,491	503	1,324	1,439	1,086	1,212
Other proceedings	2,587	4,219	3,243	3,976	3,284	3,367
Family Courts	19,213	21,137	17,215	17,716	16,310	17,015
Civil cases	3,277	6,913	5,787	6,476	7,074	6,624
Criminal cases	23	25	12	19	21	31
Other proceedings	15,913	14,199	11,416	11,221	9,215	10,360
District Courts	397,427	454,137	521,507	540,128	568,594	577,422
Civil cases	...	...	14,143	13,888	12,831	12,232
Traffic cases	...	...	480,286	499,389	520,964	524,345
Other violations	...	...	13,952	14,796	17,667	20,733
Criminal cases	...	...	13,126	12,055	17,132	20,112
Part I	...	...	2,576	2,246	3,005	3,781
Part II	...	...	10,550	9,809	14,127	16,331

Continued on next page.

Table 94.-- STATE JUDICIARY TERMINATIONS: 1970 TO 1980 -- Con.

[Fiscal years ended June 30.]

Court and type of case	1976	1977	1978	1979	1980
All courts, total ..	623,453	685,282	719,773	818,750	760,231
Supreme Court 1/	520	563	729	876	1,023
Civil cases	97	97	95	111	75
Criminal cases	50	41	68	149	150
Other proceedings	373	425	566	616	798
Intermediate Court of Appeals 2/	...	...	...	...	42
Civil cases	...	...	...	...	13
Criminal cases	...	...	...	...	21
Other cases	...	...	...	...	8
Circuit Courts proper ...	8,094	8,626	9,151	8,744	10,581
Civil cases	3,462	3,732	4,073	3,367	3,871
Criminal cases	1,638	1,532	1,716	1,962	2,279
Part I offenses	654	766	764	837	844
Part II offenses	984	766	952	1,125	1,435
Other proceedings	2,994	3,362	3,362	3,415	4,431
Family Courts	17,256	19,010	20,194	20,952	21,525
Civil cases	7,396	8,538	9,314	10,277	10,510
Criminal cases	45	24	50	40	81
Other proceedings	9,815	10,448	10,830	10,635	10,934
District Courts	597,583	657,083	689,699	788,178	727,060
Civil cases	10,953	10,330	10,200	11,382	11,894
Traffic cases	545,340	609,323	640,468	733,196	669,033
Other violations	24,881	18,926	18,888	22,096	22,696
Criminal cases	16,409	18,504	20,143	21,504	23,437
Part I offenses	2,515	3,254	3,368	3,651	3,513
Part II offenses	13,894	15,250	16,775	17,853	19,924

1/ Data for fiscal 1980 exclude 281 cases transferred to the Intermediate Court of Appeals: 221 civil cases, 38 criminal cases, and 22 other cases.

2/ The Intermediate Court of Appeals was installed on April 18, 1980. The workload for fiscal year 1980 reflects approximately two-and-a-half months of activities.

3/ Felonies through 1971; Part I offenses, 1972 forward.

4/ Misdemeanors through 1971; Part II offenses, 1972 forward.

Source: Hawaii State Judiciary, Office of the Administrative Director of the Courts, records, as revised April 30, 1980 and November 18, 1980.

Table 95.-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1979 AND 1980

[Years ended June 30.]

Court and type of action	1979	1980
Supreme Court, total	963	1,213
Primary cases	338	416
Appeals	303	387
Original proceedings	35	29
Supplemental proceedings	625	797
Circuit Court Proper, total	11,291	11,997
Primary proceedings	10,203	10,736
Civil actions	4,479	4,862
Probate proceedings	1,476	1,535
Guardianship proceedings	341	425
Miscellaneous proceedings	1,098	1,488
Criminal actions	2,809	2,426
Part I offenses	1,122	1,000
Part II offenses	1,687	1,426
Supplemental proceedings	1,088	1,261
Family Courts, total	22,854	23,718
Primary proceedings, referrals	19,536	19,936
Marital actions, proceedings	7,987	8,379
Adoption proceedings	840	788
Paternity proceedings	981	618
Miscellaneous proceedings	1,418	1,874
Criminal actions	70	99
Adults' referrals	796	786
Children and minors' referrals	7,444	7,392
Supplemental proceedings	3,318	3,782
District Court, total	801,806	772,009
Civil	12,369	13,598
Regular	10,999	11,462
Small claims	1,370	2,136
Traffic	743,863	711,727
Moving - arrest and citation	149,392	131,803
Non-moving	75,441	60,935
Parking	519,030	518,989
Other violations	24,049	22,643
Criminal actions	21,525	24,041
Part I offenses	3,560	3,754
Part II offenses	17,965	20,287

Source follows next table.

Table 96.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1979 AND 1980

[Years ended June 30.]

Court and type of termination	1979	1980
Supreme Court, total	876	1,304
Opinion filed	197	141
Dismissal motion granted	8	5
Withdrawn or discontinued	72	79
Other disposition	599	1,079
Circuit Court Proper, total	8,744	10,581
No service	491	570
No answer	310	463
No statement of readiness	47	73
Dismissal: Notice of	690	577
Stip. for	976	1,276
By judge	687	714
Nonjury: Trial	163	200
Trial not completed	6	8
Jury: Verdict	257	293
Trial not completed	16	23
No trial held	1,000	1,149
Hearings: Contested	335	478
Uncontested	1,585	1,970
Others	2,181	2,787
Family Courts, total	20,952	21,525
Nolle prosequi	20	21
Dismissal	4	12
Nonjury: Trial	34	39
Trial not completed	22	4
Jury: Verdict	8	3
Trial not completed	6	1
No trial held	754	538
Hearings: Contested	2,537	3,146
Uncontested	8,561	8,060
Counseling service	3,882	3,836
Others	5,124	5,865

Continued on next page.

Table 96.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1979 AND 1980 -- Con.

[Years ended June 30.]

Court and type of termination	1979	1980
District Court, total	788,178	727,060
Felonies	932	933
Stricken or discharged	163	253
By commitment to Grand Jury	518	512
By commitment to Circuit Court	251	168
Misdemeanors	20,572	22,504
By discharge or dismissal	4,887	4,818
By nolle prosequi	1,259	1,471
Stricken	1,828	2,784
By bail forfeiture	1,821	1,694
By commitment to Circuit Court	386	536
By conviction	10,391	11,201
Civil cases	11,382	11,894
By discontinuance or dismissal	3,369	3,672
By default or confession	7,163	7,334
By trial	730	812
By commitment to Circuit Court	120	76
Traffic and other violations	755,292	691,729
By discharge or dismissal	77,664	72,939
By nolle prosequi	13,537	8,419
Stricken	90,672	67,348
By bail forfeiture	458,113	448,467
By commitment to Circuit Court	22	43
By conviction	115,284	94,513

Source: The Judiciary, State of Hawaii, Annual Report, July 1, 1978 to June 30, 1979, pp. 74, 78, 83, and 88; The Judiciary, State of Hawaii, Annual Report, July 1, 1979 to June 30, 1980, pp. 65, 70, 75, and 80.

Table 97.-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES: ANNUAL AVERAGES, 1970 TO 1980

[For fiscal years ended June 30. Excludes county facilities prior to their transfer to State control. Halawa Jail on Oahu, Hawaii County Jail, and Maui County Jail became State correctional facilities on July 1, 1975; Kauai County Jail became a State facility on June 20, 1977.]

Year	All categories	Adult facilities			Juvenile facilities	
		Felons	Misdemeanants	Not sentenced	Boys	Girls
1970	(NA)	281	(NA)	(NA)	56	11
1971	(NA)	257	(NA)	(NA)	61	12
1972	(NA)	256	(NA)	(NA)	49	9
1973	(NA)	300	(NA)	(NA)	63	19
1974	(NA)	302	(NA)	(NA)	62	17
1975	(NA)	312	(NA)	(NA)	60	16
1976 1/ ..	530	326	47	100	46	11
1977 1/ ..	544	319	39	117	56	13
1978 1/ ..	592	351	48	129	54	10
1979	698	412	48	170	61	7
1980	817	480	74	177	76	10

NA Not available.

1/ Revised from 1979 edition, table 63, because of a decision to count felon probationers serving jail terms under one year as misdemeanants.

Source: Hawaii State Intake Service Center, Office of Correctional Information and Statistics, information submitted June 18, 1980 and February 5, 1981.

Section 5

GEOGRAPHY AND ENVIRONMENT

This section relates to land and water areas, physical geography, climate, air and water quality, noise and other geographic and environmental measurements of Hawaii.

The State consists of eight major islands and 124 minor islands with a total land area of 6,425 square miles and a general coastline of 750 miles. Honolulu is 214 miles from Hilo, 1,367 miles from Kure Atoll (the westernmost end of the State), 2,397 miles from San Francisco, and 4,829 miles from Washington, D.C. The highest peak in the State is Mauna Kea, 13,796 feet above sea level; the longest stream is Kaukonahua Stream, Oahu, 33 miles in length; the biggest lake is Halalii, on Niihau, 841 acres; and the highest named waterfall is Kahiwa, Molokai, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter, indicate that Honolulu is one of the cleanest cities in the nation. There is also relatively little water pollution: 39 major beaches surveyed in 1980 were found to have fecal coliform levels per 100 ml. ranging from 2.1 to 195.5, and all were within EPA standards. More than 1,100 species, subspecies, and varieties of native flora were endangered, threatened, or extinct, according to a 1977 survey. Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range at Honolulu International Airport, for example, was from 53° to 92°F. Normal precipitation, however, ranges from 5.7 inches near Kawaihae, South Kohala, to 451 inches atop Waialeale. The longest volcanic eruption in Island history lasted 867 days, the worst earthquake attained 7.5 on the Richter scale, and the highest tsunami wave reached 56 feet. Water withdrawn for use in 1975 averaged 2.8 billion gallons per day, compared with 2.7 billion in 1970 and 2.0 billion in 1965. Among thirty neighborhoods on Oahu, median noise levels in 1974 ranged from 44.7 decibels (in Pearl City) to 61.5 decibels (in Waikiki).

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in Atlas of Hawaii, published by the University Press of Hawaii in 1973, and Hawai'i, the Natural Environment, issued by the Department of Planning and Economic Development in 1974. National data are reported in Statistical Abstract of the United States: 1980, Section 7.

Table 98.-- GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES

Place	Distance from Honolulu	
	Statute miles	Kilometers
Hawaiian Islands:		
Cape Kumukahi, Hawaii	236	380
Hilo, Hawaii	214	344
Ka Lae (South Cape), Hawaii	221	356
Kailua, Kona, Hawaii	168	270
Kahului, Maui	98	158
Lanai Airport	72	116
Molokai Airport	54	87
Lihue, Kauai	103	166
Puuwai, Niihau	152	245
Nihoa	283	455
Necker Island	520	837
French Frigate Shoals	556	895
Gardner Pinnacles	688	1,107
Maro Reef	851	1,369
Laysan Island	936	1,506
Lisianski Island	1,065	1,714
Pearl and Hermes Atoll	1,208	1,944
Midway Islands	1,309	2,106
Kure Atoll	1,367	2,200
Trust Territory of the Pacific Islands:		
Majuro, Marshall Islands	2,271	3,654
Kwajalein, Marshall Islands	2,443	3,931
Kolonia, Ponape, E.C.I.	3,087	4,967
Saipan, Mariana Islands	3,704	5,960
Koror, Palau, W.C.I.	4,593	7,390
Other Pacific locations:		
Apra Harbor, Guam	3,806	6,124
Auckland, New Zealand	4,393	7,068
Avarua, Rarotonga	2,950	4,750
Funafuti, Tuvalu	2,550	4,106
Hong Kong	5,541	8,915
Johnston Island	820	1,319
Kingman Reef	1,073	1,726
Manila, Philippines	5,293	8,516
Nuku'alofa, Tongatapu	3,165	5,096
Nuku Hiva, Marquesas Islands	2,400	3,864
Pago Pago, American Samoa	2,606	4,193

Continued on next page.

Table 98.-- GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES -- Con.

Place	Distance from Honolulu	
	Statute miles	Kilometers
Other Pacific locations, con.:		
Palmyra Island	1,101	1,772
Papeete, Tahiti	2,741	4,410
Suva, Fiji	3,159	5,083
Sydney (Port Jackson), Australia	5,070	8,158
Tokyo, Japan	3,847	6,190
Wake Island	2,294	3,691
North and South America:		
Anchorage, Alaska	2,781	4,475
Cape Horn, Chile	7,457	11,998
Chicago, Illinois	4,179	6,724
Cristobal, Canal Zone	5,214	8,389
Lima, Peru	5,950	9,580
Los Angeles, California	2,557	4,114
Miami, Florida	4,856	7,813
New York, New York	4,959	7,979
Portland, Oregon	2,595	4,175
San Diego, California	2,610	4,199
San Francisco, California	2,397	3,857
Seattle, Washington	2,679	4,311
Vancouver, B.C.	2,709	4,359
Victoria, B.C.	2,668	4,293
Tijuana, Mexico	2,616	4,209
Washington, D.C.	4,829	7,770
London, England	7,226	11,627
Bombay, India	8,010	12,888
Ghanzi, Botswana 1/	12,417	19,979
Equator, due south of Honolulu	1,470	2,367
North Pole	4,740	7,631
South Pole	7,660	12,333

1/ Ghanzi, Botswana, is Honolulu's antipode, that is, the point precisely opposite to it on the globe.

Source follows next table.

Table 99.-- GREAT CIRCLE DISTANCES FROM HILO AND KURE ATOLL

Places	Great circle distance	
	Statute miles	Kilometers
Hilo to --		
Honolulu, Oahu	214	344
Los Angeles, California	2,447	3,937
San Francisco, California	2,315	3,725
Kure Atoll to --		
Cape Kumukahi, Puna, Hawaii 1/	1,523	2,451
Honolulu, Oahu	1,367	2,200
Log Point, Elliot Key, Florida 2/	5,852	9,416
Tokyo, Japan	2,486	4,000
West Quoddy Head, Maine	5,788	9,313

1/ Cape Kumukahi and Kure Atoll are the points farthest apart in the Hawaiian Archipelago and State of Hawaii.

2/ Log Point and Kure Atoll are the points farthest apart in the fifty states.

Source: U. S. Department of the Interior, Geological Survey, Elevations and Distances in the United States (1970), and distance computations prepared for the Department of Planning and Economic Development.

Table 100.-- WIDTHS AND DEPTHS OF CHANNELS

Channel 1/	Width 2/		Depth 3/		
	Statute miles	Kilometers	Fathoms	Feet	Meters
Alenuihaha	29.6	47.6	1,135	6,810	2,076
Alalakeiki	6.7	10.8	137	822	251
Kealaikahiki	17.8	28.6	181	1,086	331
Auau	9.5	15.3	42	252	77
Kalohi	9.2	14.8	90	540	165
Pailolo	8.8	14.2	141	846	258
Kaiwi	25.8	41.5	367	2,202	671
Kauai	72.1	116.0	1,815	10,890	3,319
Kaulakahi	17.2	27.7	595	3,570	1,088
Niihau-Kaula	21.5	34.6	894	5,364	1,635
Niihau-Nihoa	133.9	215.5	2,425	14,550	4,435
Nihoa-Necker I.	179.6	289.0	2,100	12,600	3,840
Necker I.-French Frigate Shoals	100.3	161.4	2,130	12,780	3,895
French Frigate Shoals-Gardner Pinnacles	137.0	220.5	1,908	11,448	3,489
Gardner Pinnacles-Maro Reef	155.5	250.3	2,050	12,300	3,749
Maro Reef-Laysan I.	65.9	106.1	1,380	8,280	2,524
Laysan I.-Lisianski I.	137.4	221.1	2,805	16,830	5,130
Lisianski I.-Pearl and Hermes Atoll	162.6	261.7	2,900	17,400	5,304
Pearl and Hermes Atoll-Midway Islands	86.9	139.9	2,640	15,840	4,828
Midway Islands-Kure Atoll .	57.1	91.9	2,160	12,960	3,950

Footnotes and source on next page.

1/ Listed in geographic order, from east to west. The channels were measured between the following points:

Alenuihaha: Upolu Pt., Hawaii, to Puhilele Pt., Maui;
Alalakeiki: Lae o ka Ule, Kahoolawe, to Nukuele Pt., Maui;
Kealaikahiki: Makaalae, Kahoolawe, to Kamaiki Pt., Lanai;
Auau: Kikoa Pt., Lanai, to Lahaina, Maui;
Kalohi: Wahie Pt., Lanai, to Kamalo, Molokai;
Pailolo: Lipoa Pt., Maui, to Pohakuloa, Molokai;
Kaiwi: Ilio Pt., Molokai, to Makapuu Pt., Oahu;
Kauai: Kaena Pt., Oahu, to Kamilo Pt., Kauai;
Kaulakahi: Mana Pt., Kauai, to Kaunuopou, Niihau;
Niihau-Kaula: Leahi, Niihau, to Kaula;
Niihau-Nihoa: Kuakamoku, Niihau, to Nihoa;
Nihoa-Necker Island: Nihoa to Necker Island;
Necker Island-French Frigate Shoals: Necker Island to La Perouse Pinnacle, French Frigate Shoals;
French Frigate Shoals-Gardner Pinnacles: La Perouse Pinnacle, French Frigate Shoals, to Gardner Pinnacles;
Gardner Pinnacles-Maro Reef: Gardner Pinnacles to eastern end of Maro Reef;
Maro Reef-Laysan Island: Western end of Maro Reef to Laysan Island;
Laysan Island-Lisianski Island: Laysan Island to Lisianski Island;
Lisianski Island-Pearl and Hermes Atoll: Lisianski Island to Southeast Island, Pearl and Hermes Atoll;
Pearl and Hermes Atoll-Midway Islands: Western extremity of Pearl and Hermes Atoll to Eastern Island, Midway Islands;
Midway Islands-Kure Atoll: Sand Island, Midway Islands, to Green Island, Kure Atoll.

2/ Width measured in statute miles between designated points on National Ocean Survey and Coast and Geodetic Survey charts. Width in kilometers calculated from miles (1 mile = 1.60934 km.).

3/ Depths given are the deepest soundings noted at or near the line joining the two designated points, on National Ocean Survey and Coast and Geodetic Survey charts. Depths measured in fathoms and converted to feet and meters (1 fathom = 6 feet = 1.8288 meters).

Source: Compiled by Lee S. Motteler, Pacific Scientific Information Center, Bernice P. Bishop Museum, in November 1980.

Table 101.-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline 1/		Tidal shoreline 2/	
	Statute miles	Kilometers 3/	Statute miles	Kilometers 3/
State total 4/	750	1,207	1,052	1,693
Counties:				
Hawaii	266	428	313	504
Maui, including Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands: 5/				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Kaula	2	3	2	3
Northwestern Hawaiian Islands 6/	25	40	25	40
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

1/ Figures are lengths of general outline of seacoast. Data for the four islands of Maui County are not consistent with the reported county total.

2/ Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

3/ Derived from data expressed in statute miles; independently rounded and accordingly may not add exactly to indicated totals and subtotals. 1 mi. = 1.609 km.

4/ Among the States and Territories, Hawaii ranks fourth in general coastline and seventeenth in tidal shoreline.

5/ Data are not available for five minor islands: Molokini, Lehua, Gardner Pinnacles, Maro Reef, and Pearl and Hermes Atoll.

6/ Excludes the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Midway has a general coastline of 20 miles and a tidal shoreline of 33 miles.

Source: U.S. Coast and Geodetic Survey, Coastline of the United States (April 1, 1961) and letter dated October 24, 1961.

Table 102.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS

County or island	Square miles			Square kilometers 1/		Acres 1/	
	Total area	Land area 2/	Inland water 3/	Total area	Land area 2/	Total area	Land area 2/
State total	6,450.4	6,425.4	25.0	16,706.5	16,641.7	4,128,256	4,112,256
Counties:							
Hawaii	4,038.0	4,037.0	1.0	10,458.4	10,455.8	2,584,320	2,583,680
Maui	1,161.1	1,160.3	0.8	3,007.2	3,005.2	743,104	742,592
Kalawao	13.3	13.3	-	34.4	34.4	8,512	8,512
Honolulu	610.9	595.7	15.2	1,582.2	1,542.9	390,976	381,248
Kauai	627.1	619.1	8.0	1,624.2	1,603.5	401,344	396,224
Islands:							
Hawaii	4,038.0	4,037.0	1.0	10,458.4	10,455.8	2,584,320	2,583,680
Maui	728.8	728.2	0.6	1,887.6	1,886.0	466,432	466,048
Kahoolawe	45.0	45.0	-	116.5	116.5	28,800	28,800
Molokini 4/	0.0	0.0	-	0.1	0.1	19	19
Lanai	139.5	139.5	-	361.3	361.3	89,280	89,280
Molokai	261.1	260.9	0.2	676.2	675.7	167,104	166,976
Oahu	607.7	592.7	15.0	1,573.9	1,535.1	388,928	379,328
Kauai	553.3	548.7	4.6	1,433.0	1,421.1	354,112	351,168
Niihau	73.0	69.6	3.4	189.1	180.3	46,720	44,544
Lehua	0.4	0.4	-	1.0	1.0	243	243
Kaula	0.4	0.4	-	1.1	1.1	280	280
Northwestern Hawaiian Islands 5/	3.2	3.0	0.2	8.2	7.7	2,036	1,895

Footnotes and source on next page.

Table 102.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS -- Con.

1/ Areas in square kilometers and acres were calculated directly from the figures shown for square miles (except for Molokini, Lehua, Kaula, and the Northwestern Hawaiian Islands, for which square miles calculated to three decimal places were used); these equivalents were independently rounded, and hence may not add exactly to the indicated totals and subtotals. 1 sq. mi. = 640 A. = 2.58999 sq. km.

2/ Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.

3/ Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth of a statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than one nautical mile of water; and islands having less than 40 acres of area.

4/ More exactly, the area of Molokini is 18.6 acres (equivalent to 0.03 square miles or 0.075 square kilometers).

5/ Exclusive of the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Islands included in the State and their land areas in square miles are: Nihoa, 0.298; Necker Island, 0.091; French Frigate Shoals, 0.088; Gardner Pinnacles, 0.004; Maro Reef, awash; Laysan Island, 1.312 (plus 0.220 of inland water, for a total area of 1.533); Lisianski Island, 0.675; Pearl and Hermes Atoll, 0.122; and Kure Atoll, 0.371.

Source: Data from U.S. Bureau of the Census, Geography Division, cited in the Hawaii State Department of Planning and Economic Development, Hawai'i the Natural Environment (1974), pp. 9 and 10.

Table 103.-- MAJOR SUMMITS

[Elevation of the highest point on each island
and other important peaks.]

Island and mountain	Elevation	
	Feet	Meters
Hawaii:		
Mauna Kea	13,796	4,205
Mauna Loa	13,677	4,169
Hualalai	8,271	2,521
Kohala	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
Kahoolawe:		
Lua Makika	1,477	450
Molokini	160	49
Maui:		
Haleakala (Red Hill)	10,023	3,055
Haleakala (Kaupo Gap)	8,201	2,500
Puu Kukui	5,788	1,764
Iao Needle	2,250	686
Lanai:		
Lanaihale	3,370	1,027
Molokai:		
Kamakou	4,970	1,515
Olokui	4,602	1,403
Kaunuohua	4,535	1,382
Kalaupapa Lookout	1,600	488
Puu Nana	1,381	421
Oahu:		
Kaala	4,020	1,225
Puu Kalena	3,504	1,068
Konahuanui 1/	3,150	960
Tantalus	2,013	614
Olomana	1,643	501
Koko Crater (Kohelepelepe)	1,208	368
Nuuanu Pali Lookout	1,186	361
Diamond Head	760	232
Punchbowl	500	152
Koko Head	642	196

Continued on next page.

Table 103.-- MAJOR SUMMITS -- Con.

[Elevation of the highest point on each island
and other important peaks.]

Island and mountain	Elevation	
	Feet	Meters
Kauai:		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Namolokama Mountain	4,421	1,348
Kalalau Lookout	4,120	1,256
Haupu	2,297	700
Hole-in-the-Mountain (Puu Konanae)	1,433	437
Sleeping Giant (Nonou)	1,241	378
Niihau:		
Paniau	1,281	390
Lehua	702	214
Kaula	550	168
Nihoa:		
Millers Peak	910	277
Necker Island:		
Summit Hill	277	84
French Frigate Shoals:		
La Perouse Pinnacles	135	41
Gardner Pinnacles	190	58
Maro Reef	Awash	Awash
Laysan Island	35	11
Lisianski Island	20	6
Pearl and Hermes Atoll	10	3
Midway Islands 2/	12	4
Kure Atoll	20	6
Kingman Reef 2/	3	1
Palmyra Island 2/	6	2
Johnston Atoll: 2/		
Sand Island	15	5

Footnotes and source on next page.

Table 103.-- MAJOR SUMMITS -- Con.

1/ Two distinct peaks. The lower one has an elevation of 3,105 feet.

2/ Not part of the State of Hawaii.

Source: U.S. Geological Survey data cited in the Hawaii State Department of Planning and Economic Development, Elevations of Major Mountains in Hawaii (Statistical Report 52, November 7, 1967), as revised by U.S. National Cartographic Information Center, October 11, 1978; U.S. Geological Survey topographic maps; E. D. Baldwin, 1883 Molokini figure on Hawaiian Government Survey Reg. Map No. 1276; U.S.S. Tanager survey, 1923 (for Pearl and Hermes Atoll); A. B. Amerson, Jr., and P. C. Shelton, The Natural History of Johnston Atoll, Atoll Research Bull. No. 192 (The Smithsonian Institution, Dec. 1976). Data compiled with assistance of Lee S. Motteler, Pacific Scientific Information Center, Bernice P. Bishop Museum.

Table 104.-- LAND AND WATER AREA WITHIN THE FISHERY CONSERVATION ZONE

[Land and water area within the 200 nautical mile Fishery Conservation Zone surrounding the Hawaiian Archipelago.]

Category	Square nautical miles	Square statute miles	Square kilometers
Total	634,023	839,623	2,174,626
Land area	4,852	6,425	16,641
Water area	629,171	833,198	2,157,985

Source: Charles E. Harrington, Chief Geographer, Marine Surveys and Maps, National Ocean Survey, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, information supplied September 15, 1978

Table 105.-- MAJOR STREAMS, BY ISLANDS

Island	Feature or stream	Length or ave. discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Longest perennial stream (miles): 1/		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge (million gal./day):		
Hawaii	Wailuku River	184.0
Maui	Iao Stream	54.1
Molokai	Pulena Stream	22.1
Oahu	Waikele Stream	25.7
Kauai	Hanalei River	151.0

1/ Estimated on basis of drainage area rather than stream runoff. Other major streams include Honokohau Stream, Maui (9.4 miles long); Halawa Stream (6.4), Waikolu Stream (4.7), and Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), and Waiakakalaua Stream (11.8), all on Oahu; and the Makaweli River (15.1), Wainiha River (13.8), Hanapepe River (13.3), and Wailua River (11.8), all on Kauai.

Source: Lengths from Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 15; discharges from Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied May 27, 1977.

Table 106.-- LARGEST LAKES, BY ISLANDS

[Excludes shoreline fish ponds and areas filled only during floods. The largest intermittent lake is Halalii Lake, Niihau, with an area of 840.7 acres.]

Island	Name of largest lake	Category	Maximum depth (feet)	Elevation (feet)	Area (acres)	Shoreline (miles)
Hawaii ..	Waiakea Pond	Natural	(NA)	Sea level	27	2
	Lake Waiau 1/ ...	Natural	10	13,020	1.5	0.2
Maui	Kanaha Pond	Natural	(NA)	Sea level	41	2
Kahoolawe	None					
Lanai ...	None					
Molokai .	Meyer Lake	Natural	5	2,021	6	1
Oahu	Wahiawa Reservoir	Man-made	85	842	302	11
Kauai ...	Waita Reservoir .	Man-made	23	241	424	3
Niihau ..	Halulu Lake	Natural	(NA)	Sea level	182	3

NA Not available.

1/ Highest lake in the State and third highest in the United States.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied February 11, 1981.

Table 107.-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

Island	Extreme width (miles)	Extreme width (miles)	Miles of sea cliffs with heights 1,000 ft. or more	Miles from coast of most remote point	Percent of area within 5 miles of coast
The State ..	...	...	33	28.5	48.6
Hawaii	93	76	4	28.5	30.0
Maui	48	26	-	10.6	76.1
Kahoolawe	11	6	-	2.4	100.0
Lanai	18	13	1	5.2	100.0
Molokai	38	10	14	3.9	100.0
Oahu	44	30	-	10.6	79.0
Kauai	33	25	11	10.8	67.0
Niihau	18	6	3	2.4	100.0

Island	Percent of area with elevation --		Approximate mean altitude (feet)	Percent of area with slope --	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
The State ..	20.8	50.9	3,030	63.5	17.0
Hawaii	12.0	68.4	3,950	76.0	4.0
Maui	24.9	41.4	2,390	38.5	36.0
Kahoolawe	38.9	0	600	60.0	9.0
Lanai	24.8	6.3	1,140	61.0	16.0
Molokai	37.3	17.8	1,150	53.0	26.0
Oahu	45.3	4.6	860	42.5	45.5
Kauai	35.6	24.0	1,380	33.5	50.5
Niihau	78.2	0	530	68.0	12.5

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 19; U.S. Geological Survey, Elevations and Distances in the United States (1978), pp. 4-5.

Table 108.-- VOLCANIC ERUPTIONS: 1969 TO 1981

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location 1/	Elevation (feet)	Area (square miles)	Volume (1,000 cubic yards)
Mauna Loa:						
1975: July 5	300	1	S	13,000-12,100	5.2	39,200
Kilauea:						
1969: Feb. 22 ...	4.0	6	ER	3,100-2,900	2.3	22,000
May 24	2.0	867	ER	3,150	19.3	242,000
1971: Aug. 14 ...	-	1	C	3,660-3,600	0.8	12,400
Sept. 24 ..	-	5	C, SWR	3,740-2,730	1.5	10,500
1972: Feb. 4	4.3	645	ER	3,150	13.7	167,000
1973: May 5	-	1	ER	3,340-3,250	0.1	1,600
Nov. 10 ...	-	30	ER	3,250-2,900	0.4	3,700
Dec. 12 ...	0.1	203	ER	3,150	3.1	39,300
1974: July 19 ...	-	3	C, ER	3,600-3,520	1.2	9,000
Sept. 19 ..	2.0	1	C	3,680	0.4	14,000
Dec. 31 ...	3.4	1	C	3,600	2.9	19,600
1975: Nov. 29 ...	11.0	1	C	3,600	0.05	330
1977: Sept. 13 ..	21.5	18	ER	1,600-2,080	3.0	45,000
1979: Nov. 16 ...	26.3	1	ER	3,270-3,200	0.1	800

1/ C, caldera; ER, east rift; S, summit; SWR, southwest rift.

Source: Gordon A. Macdonald and Douglass H. Hubbard, Volcanoes of the National Parks in Hawaii, 7th edition (Hawaii Natural History Association, December 1974), pp. 14 and 29, as corrected by Dr. Macdonald, May 5, 1976, and updated by the staff of the Hawaiian Volcano Observatory through March 5, 1981.

Table 109.-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1971 TO 1981

[Complete to October 1980.]

Date		Location	Magnitude (Richter Scale)
1971:	Aug. 1	S.E. of Hawaii	4.5-5
1972:	Dec. 23	W. of Kona	5
1973:	Apr. 26	Hawaii	6.2
	Oct. 9	Hawaii	4.8-5
1974:	Nov. 30	Hawaii	5.5-6
1975:	Jan. 1, 2:41 AM	Near Pahala, Hawaii	5.1
	Jan. 1, 3:20 AM	Mauna Loa, Hawaii	5.1
	Jan. 2	Near Pahala, Hawaii	5.6
	Jan. 5	Mauna Loa, Hawaii	5.1
	Nov. 29, 3:35 AM	Puna, Hawaii	5.7
	Nov. 29, 4:47 AM	Puna, Hawaii	7.2
1977:	Jan. 22	100 miles S. of Kauai	5.0
1979:	March 29	40 miles S.W. of Oahu	5.5
	Sept. 21	Puna, Hawaii	5.5
1981:	March 5	Molokai area	5.0

Source: Augustine S. Furumoto, N. Norby Nielsen, and William R. Phillips, A Study of Past Earthquakes, Isoseismic Zones of Intensity and Recommended Zones for Structural Design for Hawaii (University of Hawaii, Center for Engineering Research, June 15, 1972), pp. 16-19; Hawaii Institute of Geophysics, records; U.S. Geological Survey, National Earthquake Information Service. Data provided by Professor Augustine S. Furumoto, Hawaii Institute of Geophysics, University of Hawaii.

Table 110.-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1946 TO 1981

[Correct to April 20, 1981.]

Date	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii (dollars)
	Meters	Feet		
1946: April 1	17.0	55.8	159	26,000,000
1952: Nov. 4	6.1	20.0	-	1,000,000
1957: March 9	16.0	52.5	-	5,000,000
1960: May 22	10.5	34.5	61	23,000,000
1964: March 27	4.8	15.7	-	67,590
1975: Nov. 29	14.6	48.0	2	1,500,000

Source: George Pararas-Carayannis, Catalog of Tsunamis in the Hawaiian Islands (U.S. Coast and Geodetic Survey, May 1969); Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. III (1969), pp. 66-86; Hawaii Institute of Geophysics, records; Harold G. Loomis, The Tsunami of November 29, 1975 in Hawaii (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, Local Tsunamis and Possible Local Tsunamis in Hawaii (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977).

Table 111.-- MAJOR DAMS: 1981

Name 1/	Location	Height (ft.)	Length (ft.)	Volume of water impounded (acre ft.)
Wahiawa Dam ...	Wahiawa, Oahu	98	460	7,671
Waita	Koloa, Kauai	28	3,250	6,500
Kualapuu	Kualapuu, Molokai .	58	7,100	4,265
Alexander Dam .	Kalaheo, Kauai	119	600	2,500
Nuuanu No. 4 ..	Honolulu, Oahu	73	1,730	1,420

1/ Listed by volume of water impounded.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, information supplied February 11, 1981.

Table 112.-- LARGE RESERVOIRS: 1980

Island and reservoir	Capacity (million gallons)
Hawaii:	
Puukapu	315
Molokai:	
Kualapuu	1,400
Oahu:	
Kaneohe-Kailua	800
Ku Tree	320
Nuuanu	1,400
Wahiawa	3,000
Kauai:	
Alexander	850
Kapaia	520
Koloko	450
Puu Lua	290
Wailua	300
Waita	2,600

Source: Hawaii State Department of Planning and Economic Development and U.S. Department of Energy, Hydroelectric Power in Hawaii (February 1981), p. E-10.

Table 113.-- WATER USE, BY ISLANDS: 1975

[In millions of gallons per day.]

Island	All uses		Munici-pal	Agri-cultural 1/
	Including seawater	Fresh only		
State total	2,808	1,775	234	971
Hawaii	283	278	18	17
Maui	606	564	18	410
Lanai	2	2	1	1
Molokai	5	5	1	4
Oahu	1,430	471	183	238
Kauai	482	455	13	301
Niihau	(z)	(z)	(z)	(z)

Island	Industrial			
	Thermoelectric		Hydro-electric	Other 2/
	Fresh	Seawater		
State total	137	1,033	204	232
Hawaii	79	5	70	95
Maui	25	42	47	66
Lanai	-	-	-	-
Molokai	(z)	-	-	(z)
Oahu	16	959	-	34
Kauai	17	27	87	37
Niihau	-	-	-	-

z Less than 0.5 mgd.

1/ Maui, Oahu, and Kauai data include recycled water.

2/ Hawaii, Maui, and Kauai data include recycled water.

Source: Hawaii State Department of Land and Natural Resources, State Water Resources Development Plan and Technical Reference Document (September 1980), p. III-20.

Table 114.-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS: 1979 AND 1980

Geographic area	Number of services, June 30		Consumption 1/ (millions of gallons)	
	1979	1980	1979	1980
State total	170,542	175,382	54,628	55,610
City and County of Honolulu ..	122,067	124,752	42,446	42,519
Honolulu 2/	57,574	58,082	24,271	24,168
Rest of Oahu	64,493	66,670	18,175	18,351
Hawaii County	21,380	22,446	4,088	4,433
Kauai County	9,684	10,169	2,444	2,745
Maui County	17,411	18,015	5,650	5,913
Maui	16,326	16,892	5,403	5,649
Molokai	1,085	1,123	246	265

1/ Year ended June 30.

2/ Maunalua to Moanalua.

Source: Honolulu Board of Water Supply, Annual Report and Statistical Summary for 1978-1979 and 1979-1980; Hawaii Department of Water Supply, 1979-1980 Annual Report; Kauai Department of Water, records; Maui Department of Water Supply, Annual Report for the Fiscal Year Ended June 30, 1980.

Table 115.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1976 TO 1980

Island and beach	Number of samples, 1980	Fecal coliform density 1/ (geometric mean, MPN/100 ml)				
		1976	1977	1978	1979	1980
Hawaii (Hilo side):						
Exit of Ice Pond	12	145.3	248.2	84.0	42.3	41.6
Leileiwi Beach Park	12	106.6	87.2	63.1	93.5	195.5
Onekahakaha	12	14.8	11.8	6.0	6.8	13.5
Puhi Bay No. 3	12	6.2	9.1	10.8	6.9	9.1
Hawaii (Kona side):						
Hapuna Beach	9	2.5	2.0	3.1	6.1	16.2
Kahaluu Beach	9	2.1	3.0	3.5	2.7	2.5
Kealakekua Bay (off curio stand) .	10	2.3	2.0	2.3	2.6	2.5
Kealakekua Bay (off canoe landing)	9	20.9	11.0	2.4	3.0	2.8
Magic Sands Beach	9	2.2	4.3	21.5	3.2	3.6
Puako Beach Lots (middle)	9	10.0	7.0	14.9	13.8	16.7
Puako Beach Lots (far end)	9	24.6	21.8	48.6	17.4	35.8
Spencer Beach Park	9	13.9	23.9	9.1	9.3	7.8
Maui:						
Hukilau Hotel shoreline	11	3.8	2.6	8.3	5.6	3.3
Kahului Breakwater	11	1,116.9	245.7	32.4	7.6	2.1
Wailuku Breakwater	11	521.9	222.0	387.7	5.5	4.2
Oahu:						
Ala Moana Park (ewa)	40	4.7	3.8	5.0	5.6	5.1
Ala Moana Park (center)	14	6.0	2.0	3.2	3.7	3.1
Ala Moana Park (diamond head)	13	5.4	2.0	3.9	6.8	7.9
Elks Club Beach	15	14.0	4.2	5.0	15.8	5.9
Ewa Beach	12	6.2	2.5	6.2	4.5	4.3
Ft. DeRussy Beach	13	24.3	3.1	4.2	18.5	7.2
Gray's Beach	41	6.2	4.7	6.6	6.9	5.7
Hanauma Bay	12	6.7	4.0	2.4	10.0	5.1
Kahana Park Beach	10	18.7	81.4	49.5	42.9	35.9
Kahanamoku Beach	13	4.6	6.3	4.2	17.3	8.9
Kahanamoku Lagoon (diamond head) .	41	12.5	8.7	84.9	94.8	127.3
Kailua Bay outfall shoreline	12	15.9	2.0	2.3	2.5	8.8
Kailua Beach Park	12	6.6	9.1	6.7	17.8	13.2
Kokokahi Pier	12	33.1	58.0	30.3	45.6	60.6
Kuhio Beach	13	25.0	19.3	10.6	17.9	37.3
Public Bath Beach	41	4.5	2.4	3.6	4.3	4.6
Tavern Beach	13	3.5	4.2	10.1	8.9	17.9
Sand Island Pt. #1	10	6.7	4.2	28.2	13.9	3.6
Sand Island Pt. #2	12	140.7	25.3	21.5	33.2	3.9
Sand Island Pt. #3	12	71.0	14.8	24.7	89.6	8.9
Sand Island Pt. #4	12	48.0	10.2	15.2	19.6	17.3

Continued on next page.

Table 115.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1976 TO 1980 - Con.

Island and beach	Number of samples, 1980	Fecal coliform density 1/ (geometric mean, MPNS/100 ml)				
		1976	1977	1978	1979	1980
Kauai:						
Brennecke Beach	7	3.1	2.1	3.6	2.9	2.7
Hanalei Bay Landing	7	14.8	27.3	64.4	25.5	30.6
Poipu Beach	7	4.0	4.0	9.0	3.7	2.3

1/ The EPA criterion for bathing waters is that the fecal coliform bacteria not exceed a geometric mean value of 200 MPN/100ml.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied June 18, 1981.

Table 116.-- AVERAGE WATER TEMPERATURES AT WAIKIKI BEACH

[°F.]

Month	Morning	Afternoon
March	75	77
August	77	82

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii, 1980.

Table 117.-- AIR QUALITY IN DOWNTOWN HONOLULU: 1970 TO 1980

[Sampling is conducted approximately 46 ft. above ground on the roof of the State Health Department building, 1250 Punchbowl Street, Honolulu, Hawaii.]

Year	Annual arithmetic means (ug/m^3)	
	Total suspended particulates	Sulfur oxides
1970	37	...
1971	45	11
1972	41	11
1973	34	7
1974	35	10
1975	40	9
1976	34	23
1977	31	17
1978	29	18
1979	32	22
1980	37	18
Standards: 1/		
Primary	75	80
Secondary	60	60

1/ Primary and secondary National Ambient air quality standards have been promulgated by the Federal government. Primary standards are designed to prevent adverse effects on public health, while secondary standards are designed to prevent adverse effects on public welfare, including the effects on comfort, visibility, vegetation, animals, aesthetic values, and soiling and deterioration of materials.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied June 18, 1981.

Table 118.-- SOURCES OF AIR POLLUTANT EMISSIONS, BY COUNTIES: MAY 1978

[Percent distributions for the sums of weights of sulfur oxides, particulate matter, carbon monoxide, hydrocarbons, and nitrogen oxide emissions.]

Source	State total	Hawaii	Honolulu	Kauai	Maui
All sources	100	100	100	100	100
Transportation	49	37	55	23	34
Motor vehicles	45	33	51	19	29
Aircraft	3	3	3	3	3
Vessels	1	(N)	1	(N)	1
Gasoline handling and evaporation	(N)	(N)	(N)	(N)	(N)
Fuel combustion in stationary sources	27	17	31	15	19
Residential, commercial, institutional	(N)	(N)	(N)	(N)	(N)
Industrial	17	13	20	11	5
Steam-electric utilities .	10	4	11	4	13
Solid waste disposal	1	2	2	1	1
Open burning	1	2	1	1	1
Incineration	(N)	0	1	0	0
Industrial process losses ..	6	4	8	2	2
Agricultural field burning .	16	40	4	59	44

N Less than 0.5 percent.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied June 18, 1981.

Table 119.-- AIR QUALITY AT SPECIFIED LOCATIONS: 1980

[24-hour sampling, in micrograms per cubic meter.]

Sampling station	Total suspended particulates			Sulfur dioxide		
	Annual range		Arith-metic average	Annual range		Arith-metic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Barbers Point ...	29	158	53	<5	10	<5
Downtown Honolulu	23	103	37	<5	60	18
Kalihi Kai	29	106	55	<5	5	<5
Pearl City	22	93	36	<5	15	<5
Waikiki	20	116	36	<5	<5	<5
Waimanalo	10	90	29	...	...	...
Maui:						
Kahului	25	143	79	<5	406	64
Kihei	18	158	56	...	...	...
Hawaii:						
Hilo	10	84	21	<5	17	<5
Honokaa	10	49	23	...	...	...
Kauai:						
Lihue	16	98	38	<5	<5	<5

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied June 18, 1981.

Table 120.-- NOISE LEVELS IN VARIOUS NEIGHBORHOODS ON OAHU: 1974

Neighborhood	Noise level (in decibels) exceeded --		
	10 percent of time	50 percent of time	90 percent of time
HONOLULU			
Aina Haina	53.5	45.0	40.0
Aina Koa	61.0	48.4	42.3
Downtown	67.0	58.0	50.5
Hawaii Kai	57.0	46.5	40.5
Kahala	56.7	45.5	42.0
Kaimuki	59.0	50.7	44.0
Kalihi	58.0	50.2	43.7
Kapahulu	55.0	49.7	44.0
Kapalama-Liliha	63.8	56.0	46.0
Kuliouou	53.5	46.3	40.5
Makiki	64.5	55.0	49.5
Manoa	58.7	45.3	40.0
Moiliili	62.0	55.0	50.0
Niu Valley	57.0	46.7	39.5
Nuuanu	63.0	50.1	45.4
Palolo	58.5	49.4	44.0
Pawaa	65.5	60.0	54.0
Waikiki	69.0	61.5	54.0
Waialae-Iki	60.0	50.5	41.5
Ward to Punchbowl	67.5	60.2	57.0
REST OF OAHU			
Aiea-Waimalu	57.5	47.3	40.5
Halawa Heights, Foster Village, Salt Lake, Aliamanu	57.5	54.5	48.7
Kailua	55.5	45.0	37.5
Kaneohe	54.0	45.5	40.5
Mililani Town	57.5	50.0	45.0
Pearl City	53.2	44.7	38.7
Wahiawa	62.5	50.5	46.0
Waianae	56.5	50.0	45.0
Waimanalo	54.5	50.0	44.5
Waipahu	59.0	51.0	45.5

Source: Survey conducted by Dr. Iwao Miyake for the Hawaii State Department of Health, and summarized by the Noise and Radiation Branch, Department of Health.

Table 121.-- CLIMATIC DATA FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)	Average annual possible sunshine (percent)
		Coolest month	Warmest month	Lowest	Highest		
Hawaii:							
Hilo Airport	26	71.0	75.9	53	94	133.57	40
Hawaii Volcanoes Nat. Park Hdq.	3,971	57.6	63.2	37	85	102.81	...
Kailua	30	72.1	77.3	54	93	25.22	...
Puako 1/	10	73.1	79.8	52	98	9.47	...
Waimea (Kamuela)	2,670	62.3	66.8	34	90	40.05	...
Mauna Kea summit 2/	13,796	31.1	42.5	11	66	8.08	...
Maui:							
Hana	120	71.3	76.8	50	90	70.65	...
Haleakala summit	9,960	42.6	50.0	14	73	50.69	...
Kihei 3/	90	70.9	78.4	49	98	13.79	...
Kahuluī Airport	48	71.6	78.8	48	96	18.43	70
Lahaina	45	71.5	78.0	52	93	15.51	...
Molokai:							
Kaunakakai	12	...	...	...	...	14.08	...
Molokai Airport	450	70.2	77.6	48	90	29.21	...
Lanai:							
Lanai City	1,620	65.8	72.8	46	88	38.44	...
Oahu:							
Honolulu International Airport	7	72.3	80.7	53	93	22.90	68
Honolulu Federal Bldg. 4/	12	72.0	78.6	57	88	25.35	65
Waikiki 5/	10	71.9	80.6	51	93	27.32	...
Manoa (HSPA)	500	69.4	75.2	...	...	158.41	...
Kaneohe MCAS	10	72.9	79.1	58	90	43.88	...
Kahuku	25	71.6	78.8	49	95	41.10	...
Wheeler AFB	826	68.2	75.5	52	89	39.85	...
Waianae	20	72.1	79.7	45	96	20.31	...

Continued on next page.

Table 121.-- CLIMATIC DATA FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)	Average annual possible sunshine (percent)
		Coolest month	Warmest month	Lowest	Highest		
Kauai:							
Kilauea	315	68.7	75.6	49	94	68.03	...
Kealia	9	70.2	78.0	44	93	43.28	...
Lihue Airport	103	71.2	79.1	50	90	44.18	56
Poipu (Makahuena Pt.)	52	72.4	79.4	50	93	36.39	...
Kokee (Kanalohuluhulu)	3,600	54.9	65.5	31	80	72.25	...
Waialeale	5,075	...	...	...	...	451.00	...
Northwestern Hawaiian Islands:							
Midway	10	65.0	78.6	52	89	43.60	...

1/ Temperature data are for Mohukona.
2/ Based on incomplete and non-continuous data for 1966-1972.
3/ Temperature data refer to Puunene Airport.
4/ Temperature sensors are 87 feet above the ground.
5/ Located at Honolulu Zoo. Available only from 1965.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service Pacific Region, data supplied March 17, 1976 and May 2, 1977, and National Climatic Center, Local Climatological Data, Annual Summary With Comparative Data, 1980 for Hilo, Kahului, Honolulu, and Lihue; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied July 2, 1981.

Table 122.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT

Month	Normal temperature (°F.)			Extreme temperature (°F.) 1/		Precipitation (inches)			
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest	Normal total	Maximum monthly	Minimum monthly	Maximum in 24 hours
Jan. .	79.3	65.3	72.3	87	53	4.40	14.74	0.34	6.72
Feb. .	79.2	65.3	72.3	87	53	2.46	13.68	0.32	6.88
Mar. .	79.7	66.3	73.0	88	55	3.18	20.79	0.01	17.07
Apr. .	81.4	68.1	74.8	89	59	1.36	8.92	0.01	4.21
May ..	83.6	70.2	76.9	90	63	0.96	7.23	0.05	3.44
June .	85.6	72.2	78.9	90	65	0.32	2.46	T	2.28
July .	86.8	73.4	80.1	91	67	0.60	2.01	0.03	1.03
Aug. .	87.4	74.0	80.7	92	67	0.76	3.08	T	2.35
Sept.	87.4	73.4	80.4	92	66	0.67	2.74	0.05	1.40
Oct. .	85.8	72.0	78.9	93	64	1.51	11.15	0.11	7.57
Nov. .	83.2	69.8	76.5	89	58	2.99	14.72	0.03	9.15
Dec. .	80.3	67.1	73.7	89	54	3.69	12.09	0.06	8.14
Ann. .	83.3	69.8	76.6	93	53	22.90	20.79	T	17.07

Continued on next page.

Table 122.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent) 2/		Wind (miles/hour)		Percent of possible sunshine	Mean sky cover, sunrise to sunset 3/	Mean number of days		
							Sunrise to sunset		Precip. .01 inch or more
	8 A.M.	2 P.M.	Mean speed	Fastest mile			Clear	Cloudy	
Jan. ...	80	63	10.0	67	62	5.5	9	9	10
Feb. ...	78	60	10.6	63	63	5.7	7	9	10
Mar. ...	73	59	11.7	59	68	5.9	7	10	9
Apr. ...	70	57	12.2	40	67	6.3	6	11	9
May	67	55	12.2	35	69	6.1	6	10	7
June ...	67	54	13.0	39	70	5.7	6	7	6
July ...	66	52	13.7	34	73	5.3	8	6	8
Aug	68	53	13.4	52	75	5.3	8	6	7
Sept. ..	67	52	11.7	36	75	5.2	8	6	7
Oct. ...	68	55	10.9	40	68	5.6	8	8	9
Nov. ...	74	59	11.0	65	61	5.7	7	9	9
Dec. ...	78	61	10.9	59	59	5.6	8	10	10
Ann. ...	71	57	11.8	67	68	5.7	88	101	101

T Trace, an amount too small to measure.

1/ For periods October 1962 through December 1964 and September 1971 through December 1980.

2/ Data for 1963, 1964, and 1972-1980.

3/ Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data and Information Service, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, 1980.

Table 123.-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
Lowest monthly average minimum temp. (°F.)	February	Mauna Kea summit	23.3
Lowest monthly average daily temp. (°F.)	February	Mauna Kea summit	31.1
Highest monthly average maximum temp. (°F.)	August	Waiawa, Kauai	89.7
Highest monthly average daily temp. (°F.)	August	Puako, Hawaii	80.7
Lowest average annual rainfall (inches)		N. of Kawaihae	5.7
Highest average annual rainfall (inches)		Waialeale	451.0
Single events:			
Lowest temperature of record (°F.)	Feb. 11, 1973	Mauna Kea summit	11.
Highest temperature of record (°F.)	April 27, 1931	Pahala, Hawaii	100.
Lowest annual rainfall of record (inches)	1953	Kawaihae, Hawaii	0.2
Highest annual rainfall of record (inches)	1947-1948	Waialeale	624.
Highest wind speed of record (m.p.h.)	Jan. 17-18, 1959	Mauna Loa Obser.	105+

Source: U.S. Department of Commerce, National Weather Service, Pacific Region, data supplied March 14, 1973; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied July 2, 1981.

Table 124.-- RAINFALL, FOR SPECIFIED LOCATIONS: ANNUALLY, 1970 TO 1980

[In inches.]

Year	Hawaii		Maui		Oahu: Honolulu 1/	Kauai	
	Hilo 2/	Kona 3/	Kahului 2/	Lahaina		Lihue 2/	Koloa
1970 ..	153.98	20.78	18.61	11.95	18.35	39.18	64.45
1971 ..	140.69	37.61	20.13	15.93	28.61	49.62	75.33
1972 ..	98.85	33.22	15.71	20.21	26.72	43.54	66.72
1973 ..	107.97	14.85	10.27	10.13	18.66	35.27	66.78
1974 ..	112.92	40.49	18.68	13.01	28.24	45.60	86.35
1975 ..	99.93	25.97	13.74	12.19	24.63	35.52	49.91
1976 ..	114.67	25.51	12.83	8.86	...	32.83	62.60
1977 ..	90.38	...	11.50	8.28	...	40.34	52.51
1978 ..	119.09	26.29	19.15	11.97	25.63	39.11	70.64
1979 ..	158.77	...	26.82	20.85	24.78	37.09	55.98
1980 ..	127.74	...	27.87	22.69	27.21	54.64	78.78

1/ Old Federal Building (South King St. and Richards St.). Observations suspended November 26, 1976 - March 31, 1977.

2/ Airport data.

3/ Holualoa Beach. Observations incomplete for 1977 and discontinued after December 31, 1978.

Source: U.S. Department of Commerce, National Climatic Center, *Local Climatological Data, Annual Summary with Comparative Data, 1980* for Hilo, Kahului, and Lihue; U.S. Department of Commerce, National Weather Service, Pacific Region, records; and Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 125.-- CLIMATIC DATA FOR HONCLULU INTERNATIONAL AIRPORT: ANNUALLY, 1970 TO 1980

Year	Average temperature (°F.)			Extreme temp. (°F.)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1970 ...	78.2	73.3	83.8	58	92	15.49
1971 ...	76.1	71.7	79.5	56	89	26.64
1972 ...	76.2	70.4	81.1	53	90	26.94
1973 ...	77.2	72.6	81.2	55	91	14.24
1974 ...	77.5	74.0	81.2	58	92	24.02
1975 ...	76.2	72.4	80.1	56	90	24.39
1976 ...	76.8	72.0	80.8	53	91	12.90
1977 ...	78.2	73.7	82.2	59	92	12.36
1978 ...	76.8	72.4	80.5	57	91	25.05
1979 ...	77.0	69.9	81.1	57	93	16.93
1980 ...	77.5	71.9	81.6	56	91	26.90

Year	Relative humidity (%)		Wind speed (miles/hour)		Percent of possible sunshine	Days with precipitation .01 inch or more
	8 A.M.	2 P.M.	Annual average	Fastest mile		
1970 ...	69	54	13.2	40	72	120
1971 ...	72	57	13.3	34	70	110
1972 ...	72	57	13.2	33	65	93
1973 ...	70	54	12.7	33	63	110
1974 ...	73	58	10.9	34	61	118
1975 ...	72	56	12.2	36	62	82
1976 ...	64	52	11.5	38	60	105
1977 ...	71	55	12.2	37	68	81
1978 ...	74	58	11.9	34	69	90
1979 ...	74	57	11.4	34	68	89
1980 ...	75	59	11.9	35	69	115

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii (annual).

Table 126.-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN HAWAIIAN WATERS, BY MONTHS

Month	Trade wind frequency 1/ (percent)	Expected days of strong trade winds 2/	Highest surf 3/ (average number of days)		Water temperature (°F.)	
			Flat or 1 foot	6 feet or more	Mean maximum	Mean minimum
Jan. ...	42	9	1	19	74.7	71.1
Feb. ...	55	7	1	16	75.6	70.3
March ..	61	10	1	12	76.5	71.8
April ..	74	10	3	7	77.7	73.0
May	86	7	8	3	79.5	74.7
June ...	91	7	15	-	81.1	77.7
July ...	95	10	16	-	81.1	78.3
Aug. ...	94	7	15	-	81.9	79.2
Sept. ..	83	4	10	2	81.9	78.4
Oct. ...	71	4	1	12	81.1	77.2
Nov. ...	64	8	-	19	79.3	74.5
Dec. ...	57	9	-	20	75.9	71.4
Ann. ...	65	92	71	110	78.6	74.8

1/ Mean monthly frequency of trade winds in Hawaiian waters.

2/ Expected number of hazardous days in Hawaiian waters due to strong trade winds.

3/ Observations at Sunset Beach, Oahu. Annual averages were: flat or 1 foot, 71 days; 2-5 feet, 184 days; 6-10 feet, 71 days; 11-15 feet, 26 days; 16 feet or higher, 13 days.

4/ Observations at Kaneohe, Oahu. The mean ranged from 73.0 in January and February to 80.2 in August. Absolute maximums and minimums were respectively 84 (in July, August, and October) and 68 (December and February).

Source: Paul Haraguchi, Weather in Hawaiian Waters (Honolulu: Pacific Weather, Inc., 1979), pages 14, 22, 56, and 74.

Table 127.-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT HILO, HONOLULU, AND LIHUE, FOR SELECTED DATES

(Hawaiian Standard Time)

Subject	March 21	June 21	Sept. 23	Dec. 22
Sunrise (A.M.):				
Hilo	6:24	5:42	6:09	6:51
Honolulu	6:35	5:50	6:21	7:05
Lihue	6:41	5:55	6:26	7:12
Sunset (P.M.):				
Hilo	6:32	7:02	6:16	5:47
Honolulu	6:43	7:16	6:27	5:55
Lihue	6:49	7:23	6:33	6:00
Hours of daylight:				
Hilo	12:08	13:20	12:07	10:56
Honolulu	12:08	13:26	12:06	10:50
Lihue	12:08	13:28	12:07	10:48

Source: Nautical Almanac Office, U.S. Naval Observatory, Tables of Sunrise and Sunset, No. 1083 and 1084 and records.

Table 128.-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1979 AND 1980

Location	June 30, 1979	June 30, 1980
Along City and County streets and highways 1/	104,499	108,202
In City and County parks	95,600	95,700

1/ Excludes Federal, State, and private thoroughfares.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 129.-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA: 1970 TO 1980

[Counts are made in late December, in a circle, 15 miles in diameter, centered near Nuuanu Pali.]

Species 1/	Annual averages 1970-1974	Annual averages 1975-1979	1980
All species:			
Species	49	54	44
Individual birds ..	11,614	15,811	20,226
Endemic species:			
'Apapane	35	135	147
Hawaiian Coot	69	35	28
Hawaiian Stilt	112	128	115
Oahu 'Amakihi	42	132	152
Indigenous species:			
Great Frigatebird	614	597	615
Red-footed Booby	1,463	1,401	1,132
Introduced species:			
Barred Dove	1,468	2,216	2,541
Cattle Egret	759	1,156	1,072
Common Myna	2,567	2,241	3,577
House Sparrow	1,373	1,155	1,684
Japanese White-eye	450	1,165	1,003
Red-vented Bulbul	31	503	1,174
Spotted Dove	586	1,091	1,104
Migratory species:			
Golden Plover	564	1,138	1,884
Ruddy Turnstone	97	165	397

1/ Separate data are shown for endemic birds averaging more than 25 individuals in 1975-1979, indigenous birds more than 200, introduced birds more than 500, and migratory species and stragglers more than 100. Endemic birds are those peculiar to a particular region, in this case Hawaii, and therefore found nowhere else in the world; indigenous birds are those native to a given region, in this case Hawaii, but with a total range of distribution encompassing a much wider area. The classification is that in Andrew J. Berger, Hawaiian Birdlife (1972).

Source: Hawaii Audubon Society, The 'Elepaio (monthly).

Table 130.-- ENDANGERED, THREATENED, AND EXTINCT SPECIES OF NATIVE HIGHER PLANTS: 1977

Status	Species, subspecies, and varieties	Percent
Total native flora	2,200	100.0
Endangered, threatened, or extinct 1/ ...	1,113	50.6
Endangered	646	29.4
Threatened	197	8.9
Extinct	270	12.3
Not endangered, threatened, or extinct .	1,087	49.4

1/ For the other 49 States, 2,140 (or 10.7 percent) of all 20,000 native higher plants are endangered, threatened, or extinct.

Source: Edward S. Ayensu and Robert A. DeFilipps, Endangered and Threatened Plants of the United States (Smithsonian Institution and the World Wildlife Fund, Inc., 1978), p. xiii.

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in section 7, farms in section 19, forests in section 20, cane land and industrial parks in section 22, and shopping centers in section 23.

Out of the 4,128,000 acres in the State, almost 2,200,000 are in unused open space. Other major categories include agriculture, with 1,347,000 acres, services (including military installations), with 123,000, and recreation, with 280,000. In the Honolulu Standard Metropolitan Statistical Area (which is coterminous with Oahu), land in residential use increased from 16,500 acres in 1964 to 27,200 in 1979; during the same 15-year span, agricultural land declined from 94,500 to 75,100 acres. For the State as a whole, the Land Use Commission has zoned 154,000 acres as "urban," 1,976,000 as "conservation," 1,972,000 as "agricultural," and 9,000 as "rural."

Recent data on land ownership indicate that the Federal government owns 7.3 percent of all land, the State and counties own 34.8 percent, and private owners (chiefly large estates) have 57.9 percent. Total Federal holdings reported by the General Services Administration come to 402,900 acres, exclusive of leased land (48,500 acres); most of the Federal land is in park and military use. The State Department of Hawaiian Home Lands holds about 192,000 acres, divided among 3,004 lessees. Total land parcels in the State number 370,000.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with Federal totals ranging from 297,000 acres to 403,000. Recent statistics on military land use are likewise confusing, going as high as 175,000 acres and as low as 56,000.

Reports of the U.S. Department of Agriculture and General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Planning and Economic Develoment, Department of Taxation, and Land Use Commission, and county planning departments provided the data for this section. Greater detail appears in DPED Statistical Report 98, Land Use and Ownership Trends in Hawaii, issued December 28, 1973. Historical Statistics of Hawaii, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 8 and 24 of the Statistical Abstract of the United States: 1980.

Table 131.-- MAJOR USES OF LAND: 1974

[In thousands of acres.]

Use	Area
Approximate land area	4,112
Cropland 1/	357
Crops 2/	151
Idle	169
Pasture 3/	37
Grassland pasture and range 4/	1,018
Forest land 5/	1,626
Grazed	460
Not grazed	1,166
Special uses	842
Urban areas	178
Rural transportation areas 6/	35
Rural parks 7/	273
Wildlife refuges	162
Defense and industrial areas	174
Farmsteads, farm roads, and lanes	20
Other land 8/	269

1/ Total acreage in the crop rotation.

2/ Includes cropland harvested, crop failure, and cultivated summer fallow.

3/ Cropland used only for pasture.

4/ Grassland and other nonforested pasture, excluding cropland used only for pasture.

5/ Forest land, excluding reserved forest land and some unreserved areas duplicated in parks and other special uses of land.

6/ Includes rural highways and roads, railroads, and civilian airports.

7/ Areas in National and State parks systems.

8/ Miscellaneous areas with low agricultural use value, such as marshes, bare rock areas, and deserts.

Source: H. Thomas Frey, Major Uses of Land in the United States: 1974 (U.S. Department of Agriculture, Agricultural Economic Report No. 440, November 1979).

Table 132.-- LAND USE, BY COUNTY AND ISLAND: 1972-1979

[In acres.]

Land use	State total	Hawaii County (Sept. 1978)	Maui County (Spring 1972)			City and County of Honolulu (Dec. 1979)	Kauai County (May 1972)	
			Maui and Kahoolawe	Lanai	Molokai		Kauai	Niihau
All uses 1/	4,045,343	2,519,709	490,232	89,072	168,258	373,006	357,978	47,088
Residential	66,527	12,337	17,292	256	2,963	27,702	5,968	9
Manufacturing	3,836	625	774	-	754	1,503	177	3
Mfg. services 2/	11,023	1,566	657	54	54	2,805	5,880	7
Commercial 3/	2,390	430	233	13	38	1,563	113	-
Services 4/	122,854	35,588	30,986	80	810	52,669	2,336	385
Social and cultural 5/ .	7,821	1,910	1,302	15	93	4,135	361	5
Recreation 6/	280,481	250,034	18,778	89	34	6,322	5,224	-
Agriculture	1,346,704	810,458	197,900	15,020	37,199	75,096	167,650	43,381
Transportation 7/	6,120	2,119	776	165	24	1,763	1,273	-
Unused open spaces 8/ ..	2,197,587	1,404,642	221,534	73,380	126,289	199,448	168,996	3,298

1/ Excludes public streets and highways.

2/ Includes warehousing, construction services, and public utilities.

3/ Retail and wholesale trade.

4/ Includes commercial amusement and recreation, hotels, military installations, government offices, parking, cemeteries, personal services, business and repair services, professional services, and finance, insurance, and real estate.

5/ Educational, cultural, and religious.

6/ Excludes commercial amusement and recreation services.

7/ Includes airports, docks, and land transportation facilities.

8/ Includes vacant land, forest reserve, lakes, steep land, and undedicated streets.

Source: Hawaii State Department of Planning and Economic Development, Kauai County Land Inventory Report: 1972 (1974), and Maui County Land Inventory Report: 1972 (1974); City and County of Honolulu, Department of General Planning, Generalized Land Use, 1979, special tabulation; County of Hawaii, Department of Research and Development, County of Hawaii Data Book 1980, p. 84.

Table 133.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1979

Subject	Oahu total	City of Honolulu 1/	Rest of Oahu
LAND USE (IN ACRES)			
All existing uses	373,006	51,452	321,554
Single family	24,953	8,135	16,818
Multi-family	2,258	1,053	1,205
Industrial	6,694	2,927	3,767
Commercial	4,290	1,733	2,557
Hotel	239	123	116
Agriculture	75,097	309	74,788
Usable vacant	39,322	3,365	35,957
Other	220,153	33,807	186,346
STRUCTURES BY YEAR BUILT			
All structures	137,753	62,641	75,112
Before 1930	9,041	6,946	2,095
1930 to 1939	10,388	6,642	3,746
1940 to 1949	16,970	9,649	7,321
1950 to 1959	31,274	15,188	16,086
1960 to 1969	41,851	15,891	25,960
1970 and later	25,262	7,399	17,863
Not reported and unknown	2,967	926	2,041
NONRESIDENTIAL FLOOR AREA 2/ (1,000 SQUARE FEET)			
All nonresidential floor area	113,439	93,828	19,611
Transportation	4,149	4,004	145
Manufacturing	8,947	6,583	2,364
Utilities and communications	2,018	1,642	376
Contract construction	2,840	2,214	626
Wholesale trade and warehousing	11,125	8,913	2,212
Commercial retail	17,878	12,376	5,502
Commercial services	19,304	17,046	2,258
Public and quasi-public buildings	22,502	18,375	4,127
Hotel	19,411	18,642	769
Vacant or unknown uses	5,265	4,033	1,232

Continued on next page.

Table 133.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1979 -- Con.

Subject	Oahu total	City of Honolulu 1/	Rest of Oahu
DWELLING UNITS BY TYPE			
All dwelling units	234,722	138,256	96,466
Single family and duplex	125,367	54,557	70,810
Low density multi-family	9,832	1,007	8,825
High density multi-family	99,523	82,692	16,831

1/ As defined for statistical purposes. The entire island of Oahu is a single municipality.

2/ For definitions, see City and County of Honolulu, Department of General Planning, Planning Data for Oahu: 1975 Land Use Data by Small Area (May 1978).

Source: City and County of Honolulu, Department of General Planning, records.

Table 134.-- RESIDENTIAL LOTS APPROVED BY THE CITY AND COUNTY OF HONOLULU, BY DISTRICTS: 1979 AND 1980

District	1979	1980
Oahu total	2,005	1,792
Honolulu	530	686
Koolaupoko	356	190
Koolauloa	336	68
Waialua	137	73
Wahiawa	26	37
Waianae	38	36
Ewa	582	702

Source: City and County of Honolulu Department of General Planning, records.

Table 135.-- LAND PARCELS, BY COUNTIES: 1971 TO 1981

[As of July 1, 1971-1976 and January 1, 1977-1981.]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1971	270,336	128,153	24,557	106,037	11,589
1972	280,540	134,880	25,472	108,314	11,874
1973	290,512	141,651	26,633	109,809	12,419
1974	302,987	149,521	28,474	111,463	13,529
1975	316,240	158,069	31,137	112,283	14,751
1976	329,695	167,044	34,148	113,406	15,097
1977	335,411	170,554	34,869	114,618	15,370
1978	342,284	174,125	36,283	115,832	16,044
1979 1/......	352,430	177,818	38,336	119,049	17,227
1980 1/......	366,375	186,555	39,375	121,688	18,757
1981	370,367	192,755	41,601	115,958	20,053

1/ Figures for Hawaii County for 1979 and 1980 may not be comparable to those for 1971-1978 and 1981, because of the possibility of double-counting for parcels with multi-pitt codes.

Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

Table 136.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: JULY 25, 1980

[Based on land use classifications used for real property assessment purposes.]

Land use class 1/	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
All uses 2/	4,049,952	371,150	750,268	2,526,909	401,625
Residential	87,062	63,890	6,873	11,793	4,506
Hotel-apartment	7,659	2,618	2,131	2,045	865
Commercial	6,197	2,706	612	1,129	1,750
Industrial	16,161	8,027	1,539	6,010	585
Agricultural	1,939,803	136,111	405,807	1,199,936	197,949
Conservation	1,961,027	147,158	328,498	1,293,278	192,093
Unimproved residential .	32,046	10,640	4,809	12,719	3,878

1/ "Pitt codes" as established by the "Pittsburgh Law" of differential tax rates for real property assessment and taxation in Sec. 246-10, Hawaii Revised Statutes (1976 Replacement).

2/ Excludes public streets and highways and other areas not in parcels of record, and thus differs somewhat from the official figures based on measurements of the Geography Division of the U.S. Bureau of Census. The Bureau's data for total area (including inland water) are: State, 4,128,256 acres; Honolulu, 390,976; Maui, 751,616; Hawaii, 2,584,320; Kauai, 401,344.

Source: Hawaii State Department of Taxation, Systems and Procedures Office, records.

Table 137.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1981

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes. All data are approximate.]

Year and month	Classification by State Land Use Commission 2/				
	Total area 1/	Urban	Conservation	Agricultural	Rural
1964: August ...	4,111,500.0	117,800.0	1,862,600.0	2,124,400.0	6,700.0
1969: August ...	4,111,500.0	140,163.3	2,009,086.7	1,955,875.0	6,375.0
1974: March	4,111,500.0	147,472.0	1,986,428.9	1,968,727.2	8,871.9
1975: February .	4,111,500.0	148,921.4	1,976,995.7	1,976,695.4	8,887.5
1977: January ..	4,111,500.0	149,262.9	1,976,995.7	1,976,327.2	8,914.2
1978: January ..	4,111,500.0	151,012.5	1,976,931.4	1,974,339.5	9,216.7
1979: January ..	4,111,500.0	151,929.6	1,976,105.9	1,974,229.8	9,234.7
1980: January ..	4,111,500.0	152,199.2	1,975,865.1	1,974,195.5	9,240.3
1981: January ..	4,111,500.0	154,318.8	1,975,836.4	1,972,103.5	9,241.3

Footnotes and source follow next table.

Table 138.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS: JANUARY 1981

[See headnote of preceding table.]

Island	Classification by State Land Use Commission 2/				
	Total area 1/	Urban	Conservation	Agricultural	Rural
State total	4,111,500.0	154,318.8	1,975,836.4	1,972,103.5	9,241.3
Hawaii	2,573,400.0	35,388.2	1,309,461.8	1,227,938.0	612.0
Maui	465,800.0	15,630.4	193,678.7	252,710.9	3,780.0
Kahoolawe	28,800.0	-	28,800.0	-	-
Lanai	90,500.0	2,338.5	38,202.5	47,239.0	2,720.0
Molokai	165,800.0	3,293.1	49,767.7	111,843.2	896.0
Oahu	385,300.0	86,851.0	154,893.9	143,555.1	-
Kauai	353,900.0	10,817.6	198,731.8	143,117.3	1,233.3
Niihau	45,700.0	-	-	45,700.0	-
Kaula and Lehua	400.0	-	400.0	-	-
Other islands 3/	1,900.0	-	1,900.0	-	-

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5.

2/ For definitions, see Hawaii Revised Statutes, 1976 Replacement, Section 205-2.

3/ The Northwestern Islands, from Nihoa to Kure Atoll, excluding Midway.

Source: Hawaii State Department of Planning and Economic Development, Land Use Commission, data supplied February 17, 1981.

Table 139.-- LAND OWNERSHIP, BY ISLANDS: 1968-1978

[In acres. Includes area in public thoroughfares on Hawaii but excludes it for other islands.]

Island	Survey date	All land 1/	Land owned by government 2/			Privately owned land 3/
			Federal	State	Counties	
State total ..	...	4,045,511	296,803	1,394,552	13,335	2,340,821
Percent	...	100.0	7.3	34.5	0.3	57.9
Hawaii	1971	2,516,979	200,995	985,269	839	1,329,876
Maui	1972	461,402	12,275	155,284	365	293,478
Kahoolawe	1972	28,832	28,819	13	-	-
Lanai	1972	89,071	8	169	2	88,892
Molokai	1972	168,257	1,839	39,652	2	126,764
Oahu	1978	373,216	50,634	62,073	11,008	249,501
Kauai	1972	357,977	1,977	149,276	1,119	205,605
Niihau	1972	47,217	256	256	-	46,705
Other islands 4/ ..	1968	2,560	-	2,560	-	-

1/ Because of the omission of public thoroughfares and for other reasons, totals by island may differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel, and no firm statement is possible.

3/ For data on the leasehold status of privately owned land, see the two following tables.

4/ Lehua, Kaula, and the Northwestern Hawaiian Islands other than Midway.

Source follows next table.

Table 140.-- PRIVATELY OWNED LAND, LEASED AND UNLEASED, BY ISLANDS: 1968-1978

[In acres.]

Island	Survey date	All private land	Not leased	Leased 1/
State total	...	2,340,821	1,872,207	468,614
Hawaii	1971	1,329,876	1,026,003	303,873
Maui	1972	293,478	255,272	38,206
Kahoolawe	1972	-	-	-
Lanai	1972	88,892	88,882	10
Molokai	1972	126,764	104,089	22,674
Oahu	1978	249,501	165,727	83,774
Kauai	1972	205,605	185,529	20,076
Niihau	1972	46,705	46,705	-
Other islands 2/	1968	-	-	-

1/ To either governmental or private lessees. For Oahu data by type of lessee, see the following table.

2/ Lehua, Kaula, and the Northwestern Hawaiian Islands (except Midway).

Source: Hawaii State Department of Planning and Economic Development, Hawaii Urban Planning Information Center, Land Inventory Report; 1972 for Hawaii County (1974, p. 19), Maui County (1974, pp. 25-26), and Kauai County (1974, pp. 25 and 29), and underlying data; Hawaii State Department of Land and Natural Resources, Report to the Governor 1973-1974, p. 54 (for Lehua, Kaula, and the N.W.H.I.); Honolulu Department of General Planning records.

Table 141.-- LAND OWNERSHIP AND CONTROL, FOR OAHU: 1978

[In acres.]

Lessee	Owner				
	All owners	Federal	State	City and County	Private
Total land ..	373,216	50,634	62,074	11,007	249,501
None	272,532	45,990	50,045	10,770	165,727
Federal	2,816	-	2,706	-	110
State	193	33	-	157	3
City and County ..	1,187	25	1,148	-	14
Private	96,488	4,586	8,175	80	83,647

Source: City and County of Honolulu, Department of General Planning, records.

Table 142.-- ACRES OWNED IN FEE BY SELECTED MAJOR LANDOWNERS: 1964, 1979 AND 1980

[Many of these figures are not exact accountings of acres owned but are the landowners' best estimates.]

Landowner	1964	1979	1980
Bernice P. Bishop Estate	369,700	341,749	341,764
Richard S. Smart (Parker Ranch)	185,610	120,000	120,000
Castle & Cooke, Inc.	154,759	1/ 150,370	150,370
C. Brewer & Company, Ltd.	145,147	98,520	98,491
Samuel M. Damon Estate	143,842	122,969	122,955
Alexander & Baldwin, Inc.	122,788	95,400	94,100

1/ As of March 1980, but figure does not differ significantly from the 1979 figure.

Source: State Legislative Reference Bureau, Public Land Policy in Hawaii: Major Landowners, Report No. 3 (1967), p. 17; data for 1979 and 1980 supplied by landowners listed.

Table 143.-- REAL PROPERTY OWNED OR LEASED BY THE FEDERAL GOVERNMENT: 1969 TO 1979

Subject	June 30, 1969	Sept. 30, 1977	Sept. 30, 1978 1/	Sept. 30, 1979 2/
OWNED				
Number of installations	152	271	284	295
Land area, total (acres)	397,011.8	407,904.3	402,938.6	660,620.1
Urban	55,236.8	54,810.1	(NA)	55,696.9
Rural	341,775.0	353,094.2	(NA)	604,923.2
Number of buildings	11,424	14,512	14,610	14,481
Cost, total ($1,000) 3/	1,069,833	1,438,050	1,448,743	1,474,050
Land	26,592	52,152	52,150	62,462
Buildings	529,721	772,361	786,375	789,851
Structures and facilities	513,520	613,537	610,218	621,737
Predominant usage (acres):				
Agriculture and grazing	-	-	-	-
Forest and wildlife 2/	1,767.4	3,106.4	3,108.6	255,620.2
Parks and historic sites	218,318.0	228,898.9	228,898.9	228,904.1
Power development and distribution	-	-	-	-
Reclamation and irrigation	-	-	-	-
Office building locations	19.7	52.3	50.5	54.6
Military, excluding airfields 4/	175,207.7	163,835.7	163,439.8	169,258.8
Airfields		3,738.0	3,738.0	3,745.0
Harbor and port facilities	35.1	156.6	23.6	23.6
Flood control and navigation	625.7	1,480.8	1,480.8	1,480.8
Vacant	13.1	1.5	1.5	1.5
Institutional	1.5	359.5	359.5	359.5
Housing	81.4	84.5	85.1	84.2
Storage	34.0	529.8	139.2	139.2
Industrial	48.6	5,179.7	1,132.5	203.0
Research and development	5.2	6.2	6.2	6.2
Other land	854.4	474.4	474.4	739.4
LEASED				
Number of leases	237	226	229	(NA)
Land area, total (acres)	29,596.0	47,262.0	48,542.9	(NA)
Urban	36.1	147.0	147.2	(NA)
Rural	29,559.9	47,115.0	48,395.7	(NA)
Number of building locations	155	157	153	(NA)
Floor area of buildings (sq. ft.)	450,025	352,876	307,246	(NA)
Annual rental ($1,000)	1,517.5	1,346	1,414	(NA)

Footnotes and source on next page.

Table 143.-- REAL PROPERTY OWNED OR LEASED BY THE FEDERAL GOVERNMENT: 1969 TO 1979 -- Con.

NA Not available.

1/ Corrected from published data, which overstated Navy acreage and the State total by 195,359.7 acres.

2/ Data for 1979 are not comparable to figures for earlier years. According to a letter from the General Services Administration, "this increase of nearly 258,000 acres is almost entirely due to a correction of acreage holdings submitted by the U.S Fish and Wildlife Service. That office revised a Hawaiian Islands National Wildlife Refuge holding from 1,906.5 acres to 254,418.1 acres to include the lagoon water acreage of the circular reefs and shoals."

3/ At time of acquisition. Includes estimated equivalent cost of properties acquired through donation, exchange, devise, forfeiture, or judicial process.

4/ Figure for 1969 refers to all Department of Defense land used for military functions.

Source: General Services Administration, Summary Report of Real Property Owned by the United States Throughout the World (annual) and Summary Report of Real Property Leased to the United States Throughout the World (annual). The 1978 corrections were telephoned to DPED on February 26, 1980.

Table 144.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1980

[The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified native Hawaiians, who receive homestead leases and financial assistance from the Department.]

Island	Acreage		Lessees		Applicant list	
	Total	In home-stead use	Total awards	Resi-dential only	Total	Resi-den-tial
State total ..	191,727	29,030	3,004	2,591	6,928	6,098
Hawaii	111,584	21,036	701	554	1,600	1,040
Maui	29,068	17	89	89	477	443
Molokai	27,723	6,743	378	117	370	253
Oahu	5,083	645	1,646	1,644	4,013	4,005
Kauai	18,269	589	190	187	468	357

Source: Annual Report, Department of Hawaiian Home Lands, 1979-80, pp. 7, 8, and 12.

Section 7

RECREATION AND TOURISM

Statistics on tourism, recreation, sports, museums, the performing arts, pets and parks appear in this section. Information on recreational land use is given in Section 6; on transportation, in Section 18; on hotels, in Section 23.

Tourism has shown impressive growth in recent decades. Approximately 3,935,000 visitors stayed overnight or longer in Hawaii during 1980, compared with 1,747,000 in 1970 and only 297,000 in 1960. The average number present at any given time during 1980 was 96,000, almost three times the 1970 average. Total visitor expenditures (exclusive of trans-Pacific fares) in 1980 amounted to $3.0 billion, compared with $595 million a decade earlier. The 1980 visitor total included 2.5 million from other States, 300,000 from Canada, and 570,000 from Japan. Expenditures per visitor day in 1977 averaged $54.62 for westbound visitors and $146.85 for the Japanese. Visitor spending in 1980 resulted in tax revenues of $323 million and generated 117,000 jobs.

Both visitors and residents have access to a wide range of recreational and cultural facilities. The State has six National parks and similar areas, 66 State parks, 617 County parks, 39 civilian golf courses, 245 public tennis courts, 1,983 small-boat moorages, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational and cultural facilities reporting more than a million annual visitors include five National or State parks, the National Memorial Cemetery of the Pacific, U.S.S. Arizona Memorial, and the Honolulu Zoo. Total visits to 41 museums, state monuments and similar attractions in 1980 numbered 11.5 million. About 200,000 Hawaii residents traveled to the Mainland in 1980 and half of them were absent more than 11.6 days. Eleven theatrical groups on Oahu reported 965 performances of 87 productions for the 1979-1980 season, with a combined audience of 276,000. During the same period, the Honolulu Symphony Orchestra gave 122 concerts, with a total attendance of 186,000. Professional baseball drew 148,000 fans in 1980, and during the 1980-1981 school year, attendance at UH-Manoa varsity baseball, basketball and football home games exceeded 467,000. More than 6,600 runners completed the 1980 Honolulu Marathon.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau (chiefly in its monthly and annual research reports), the State Parks Division of the Department of Land and Natural Resources, the U.S. National Park Service, U.S. Passport Office, County park and recreation departments, and other organizations. An extensive compilation of statistics on recreational facilities and behavior was issued by the Hawaii State Department of Land and Natural Resources in 1980 in its State Recreation Plan, Technical Reference Document. Long-term trends are summarized in Historical Statistics of Hawaii, Section 11. National statistics are given in Section 8 of Statistical Abstract of the United States: 1980.

Table 145.-- MODE AND DIRECTION OF TRAVEL OF PASSENGERS ARRIVING IN HAWAII: 1970 TO 1980

Year	All arriving passengers	Mode of travel		Direction of travel	
		Air	Surface	Westbound	Eastbound or northbound
1970	2,219,559	2,174,303	45,256	1,734,560	484,999
1971	2,500,462	2,455,147	45,315	1,903,130	597,332
1972	3,053,557	3,013,488	40,069	2,308,712	744,845
1973	3,624,667	3,598,312	26,355	2,696,415	928,252
1974	3,882,957	3,861,208	21,749	2,802,465	1,080,492
1975	3,849,525	3,832,790	16,735	2,806,524	1,043,001
1976	4,340,442	4,324,029	16,413	3,205,779	1,134,663
1977	4,544,802	4,530,817	13,985	3,434,979	1,109,823
1978	4,784,561	4,776,977	7,584	3,664,351	1,120,210
1979	5,291,333	5,283,771	7,562	3,839,041	1,452,292
1980	5,380,383	5,380,383	-	3,861,059	1,519,324

Source: Hawaii Visitors Bureau, 1980 Annual Research Report, p. 5.

Table 146.-- RESIDENCE STATUS OF WESTBOUND PASSENGERS ARRIVING IN HAWAII: 1970 TO 1980

Year	All westbound passengers	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Returning residents	Intended residents	Unclassified
			Overnight or longer	Transits			
1970	1,734,560	1,127,950	198,185	193,798	173,252	40,073	1,302
1971	1,903,130	1,207,898	222,457	268,001	162,967	41,562	245
1972	2,308,712	1,540,268	242,469	309,595	171,772	44,388	220
1973 ...	2,696,415	1,815,443	252,418	396,508	194,974	36,886	186
1974	2,802,465	1,899,632	284,988	426,507	154,154	37,007	177
1975	2,806,524	1,935,396	272,021	381,419	178,040	39,233	415
1976	3,205,779	2,245,252	306,349	426,666	186,684	40,690	138
1977	3,434,979	2,453,541	309,771	448,521	179,298	43,617	231
1978 1/ .	3,664,351	2,698,831	332,168	436,942	156,901	39,476	33
1979 1/ .	3,839,041	2,805,813	333,642	546,113	130,914	22,559	-
1980	3,861,059	2,718,863	327,269	603,206	197,799	13,922	-

1/ Decline in returning and intended residents probably reflects increased nonresponse rates resulting from revised questionnaire format used from July 1978 to July 1979.

Source: Hawaii Visitors Bureau, 1980 Annual Research Report, p. 7.

Table 147.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1964 TO 1980

Year	Visitors staying overnight or longer			Average number present 1/		
	Total	West-bound 2/	Other	Total	West-bound 2/	Other
1964	563,925	460,290	103,635	16,037	14,901	1,136
1965	686,928	567,218	119,710	17,369	16,057	1,312
1966	835,456	686,886	148,570	20,918	19,271	1,647
1967	1,124,818	893,103	231,715	27,630	24,898	2,732
1968	1,314,571	1,015,844	298,727	32,335	28,784	3,551
1969	1,527,012	1,181,029	345,983	37,198	33,088	4,110
1970	1,746,970	1,326,135	420,835	36,943	32,028	4,915
1971	1,818,944	1,430,325	388,619	40,889	36,504	4,385
1972	2,244,377	1,782,737	461,640	50,143	45,098	5,045
1973	2,630,952	2,067,861	563,091	59,578	53,407	6,171
1974	2,786,489	2,184,620	601,869	63,535	56,939	6,596
1975	2,829,105	2,207,417	621,688	66,308	59,495	6,813
1976	3,220,151	2,551,601	668,550	75,532	68,225	7,307
1977	3,433,667	2,763,312	670,355	83,030	75,684	7,346
1978	3,670,309	3,030,999	639,310	92,034	85,028	7,006
1979	3,960,531	3,139,455	821,076	98,676	89,678	8,998
1980	3,934,504	3,046,132	888,372	96,497	86,788	9,709

1/ Data for 1964-1979 have been revised from the corresponding figures in the 1980 edition, table 128.

2/ Arriving from the Mainland United States or Canada.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 148.-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII: 1974 TO 1980

[In thousands.]

Place of residence	1974	1977	1978	1979	1980
Total	2,790	3,435	3,670	3,960	3,934
United States	1,988	2,360	2,500	2,610	2,499
Canada	175	300	315	300	300
Japan	400	440	470	580	570
Australia and So. Pacific	120	165	180	220	260
Asia, exc. Japan	50	90	110	145	168
Europe	40	60	75	90	110
Latin America and Caribbean ...	15	18	18	13	25
Africa	2	2	2	2	2

Source: Hawaii Visitors Bureau, records.

Table 149.-- DESTINATION OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1980

Destination 1/	Number of visitors
Visitors to and beyond Hawaii	3,649,338
Destined to Hawaii	2,718,863
Destined beyond Hawaii	930,475
Around the World	34,002
Australia	311,141
New Zealand	99,558
Other Pacific	53,246
Japan	264,694
Hong Kong	49,494
Philippines	22,470
Other Asia	95,870

1/ Because of changes in allocation procedures, data for destinations of visitors beyond Hawaii are not comparable to the corresponding estimates for 1979 in the 1980 Data Book, table 132.

Source: Hawaii Visitors Bureau, 1980 Annual Research Report, pp. 13-15.

Table 150.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS, BY COUNTIES: 1970 TO 1980

Year	Westbound visitor arrivals 1/			Average visitor census, including eastbound and northbound			
	Hawaii County	Kauai County	Maui County	City and Co. of Honolulu 2/	Hawaii County	Kauai County	Maui County
1970 ...	445,401	410,075	447,985	26,699	3,588	3,011	3,645
1971 ...	522,166	472,663	554,799	28,323	4,349	3,535	4,682
1972 ...	637,562	565,386	710,050	34,707	5,153	4,136	6,147
1973 ...	694,170	590,475	766,791	43,341	5,477	4,206	6,554
1974 ...	742,839	601,703	852,201	45,486	6,024	4,484	7,541
1975 ...	769,779	632,821	931,863	46,140	6,496	4,941	8,731
1976 ...	816,514	699,275	1,110,726	52,683	6,782	5,445	10,622
1977 ...	839,008	740,501	1,257,142	57,342	7,195	6,025	12,468
1978 ...	908,983	837,712	1,403,054	62,379	8,094	7,069	14,492
1979 ...	860,940	825,366	1,419,773	67,688	7,996	7,394	15,598
1980 ...	761,103	781,409	1,378,189	66,680	7,195	7,259	15,363

1/ Because many visitors visit more than one island, county data sum to total greater than the State total shown in another table. Data cover westbound visitors destined to or beyond Hawaii, and include one-day (non-overnight) Neighbor Island visits by these passengers. Not separately available for the City and County of Honolulu.

2/ Data for 1970-1979 are revisions.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 151.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1970 TO 1980

Year	Residence 1/ (percent)		Males per 1,000 females	Median age (years)	High status occupations 2/ (percent)	Persons per party
	Western states 7/	California				
1970	47.7	33.4	663	40.7	49.6	1.55
1971	46.8	32.0	741	42.6	54.0	1.61
1972	42.5	27.7	801	44.7	58.9	1.71
1973	39.4	25.5	762	44.0	56.4	1.69
1974	38.2	24.4	788	44.1	59.3	1.72
1975	39.7	24.8	810	44.5	60.4	1.75
1976	37.9	24.0	787	44.8	58.4	1.75
1977	40.2	25.8	802	43.2	58.8	1.78
1978	41.3	26.0	810	42.9	59.8	1.81
1979	43.1	25.7	823	41.7	60.1	1.80
1980	47.1	30.6	829	41.3	62.0	1.79

Year	Arriving June 1-Aug. 31 (percent)	Repeat visitors 3/ (percent)	Pleasure trip (percent)	Staying in hotel 4/ (percent)	Average intended stay 5/ (days)	Intending to visit Neighbor Islands 6/ (percent)
1970	33.1	32.8	74.8	84.0	10.9	54.8
1971	30.8	36.4	76.0	84.9	11.0	60.6
1972	29.2	35.1	77.4	89.0	10.9	61.5
1973	30.2	34.3	78.3	89.3	10.7	58.8
1974	28.6	37.3	78.2	91.4	10.7	62.0
1975	28.6	39.7	76.4	91.7	10.8	66.0
1976	28.3	38.7	79.0	93.4	10.7	65.6
1977	27.3	41.1	78.6	89.8	10.9	66.8
1978	26.7	42.8	76.5	83.0	11.2	68.2
1979	27.0	44.1	76.7	74.4	11.2	68.5
1980	28.7	48.4	75.4	71.2	11.2	68.3

1/ Base includes estimated number of visitors arriving directly from Canada and usually omitted from the Hawaii Visitors Bureau Basic Data Survey.

2/ Party heads only. Calculated as the number of professional, technical, business, managerial and official workers as a percent of all party heads responding to this question.

3/ Party heads only.

4/ Includes condominiums operating as hotels through June 1978 but excludes such facilities thereafter.

5/ Computed from total visitor days and total visitor arrivals for westbound visitors destined for Hawaii. These data differ somewhat from corresponding data in the source, because of different computation procedures.

6/ Base includes passengers who did not answer this question.

7/ Pacific and Mountain States.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 152.-- CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1980

Subject	Visitors to Hawaii	Visitors beyond Hawaii
All visitors	2,718,863	930,475
Age:		
Under 10 years	67,975	52,843
10 to 19 years	210,306	65,782
20 to 29 years	468,848	211,567
30 to 39 years	521,225	205,660
40 to 49 years	489,561	148,327
50 to 59 years	517,787	121,656
60 years and over	386,534	80,253
Age not reported	56,627	44,387
Sex:		
Male	1,232,119	524,532
Female	1,486,744	405,943
Intended length of stay:		
1 day 1/	224,214	603,206
2 days		39,465
3 days		79,242
4 to 6 days		145,014
7 to 12 days	1,622,316	50,602
13 to 18 days	650,771	12,946
19 to 24 days	107,105	
25 to 30 days	43,265	
31 to 60 days	29,840	
61 to 90 days	909	
91 to 365 days	443	
Residence: 2/		
Pacific	1,094,815	66,581
Alaska	22,983	2,037
California	822,230	49,876
Oregon	86,916	4,861
Washington	162,686	9,807
Mountain	171,866	11,343
West North Central	150,126	7,611
West South Central	150,482	14,526
East North Central	285,778	18,872
East South Central	43,220	2,661
New England	71,462	8,864
Middle Atlantic	217,732	28,885
South Atlantic	163,980	24,022
Guam, Puerto Rico, Virgin Isl.	130	9,414
Canada	296,033	32,109
Other foreign	43,732	695,151
Residence not reported	29,507	10,436

Continued on next page.

Table 152.-- CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1980 -- Con.

Subject	Visitors to Hawaii	Visitors beyond Hawaii
Purpose of trip: 3/		
Pleasure	2,040,182	714,288
Business	79,558	58,000
Business and pleasure	358,483	78,778
Government and military	10,680	17,901
Visiting relatives	110,355	20,906
Attend school	2,457	784
Convention	93,821	7,467
Other	8,399	13,173
Purpose not reported	14,928	19,178
Traveler status:		
Organized tour group	641,537	232,212
Individual basis	1,934,393	655,116
Incentive	100,367	11,616
Government/military	10,636	17,905
No answer	31,930	13,626
Intended accommodations:		
Hotel or apartment-hotel	1,925,058	282,475
Condominium	444,690	14,839
Friend's or relative's home	287,768	20,725
Other accommodations	47,873	5,138
Intransits	-	603,206
Not reported	13,474	3,819
Visitor days (1,000)	30,379	2,283

1/ Includes visitors beyond Hawaii who were in transit and did not report their intended length of stay.

2/ Census divisions. For composition, see source, table 12.

3/ Because of changes in allocation procedures, data for visitors beyond Hawaii are not comparable to corresponding 1979 estimates in 1980 Data Book, table 132.

Source: Hawaii Visitors Bureau, 1980 Annual Research Report, pp. 8, 11-14, 17, 18, 22, and 23.

Table 153.-- CHARACTERISTICS OF WESTBOUND VISITOR PARTY HEADS TO AND BEYOND HAWAII: 1980

Subject	Visitors to Hawaii	Visitors beyond Hawaii
All party heads	1,516,441	608,825
Occupation:		
Professional and technical	535,954	189,928
Business, managerial, official	391,608	190,531
Clerical, office, sales	145,521	50,355
Military service	13,593	12,826
Other employed	113,070	35,102
Military dependent	2,184	977
Retired	171,661	35,398
Student	70,926	50,722
Other non-employed	52,110	29,154
Not reported	19,814	13,832
Trips to Hawaii:		
First trip	735,348	296,460
Second trip	268,015	103,402
Third trip	129,314	42,073
Fourth trip and over	291,378	104,950
Not reported	92,386	61,940
Persons in party:		
1 person	310,506	249,843
2 persons	921,784	209,034
3 persons	106,742	44,262
4 persons	116,372	66,490
5 persons or more	61,037	39,196
Average size	1.79	1.53

Source: Hawaii Visitors Bureau, 1980 Annual Research Report, pp. 10, 24, and 25, and records.

Table 154.-- TRAVEL BY U.S. RESIDENTS TO AND THROUGH HAWAII: 1977

[In thousands. This table refers to nonlocal travel by the civilian noninstitutional population of the United States during 1977. Nonlocal travel was defined as any trip extending 100 miles or more from origin to destination. Specifically excluded from the survey was (1) travel taken as part of an operating crew on a plane, ship, bus, or truck, (2) travel by students between home and school, and (3) travel by the armed forces while on active duty. Travel by military dependents was included, however. Based on a nationwide sample of approximately 25,000 households. For standard errors, see source, table F4, p. xv.]

Subject	All trips 1/	Trips originated --	
		In Hawaii 1/	In other states 2/
Travel to and through Hawaii:			
Households taking trips	1,042	(NA)	(NA)
Persons taking trips	1,849	127	(NA)
Household trips	1,232	178	1,054
Person trips	2,051	243	1,808
Person nights spent in Hawaii	22,035	921	21,114
Trips to destinations in Hawaii:			
Persons taking trips	1,774	127	(NA)
Household trips	1,175	178	997
Person trips	1,977	243	1,734
Person nights spent in Hawaii	21,649	921	20,728
Trips to destinations in other States or outside the U.S.:			
Household trips	56	-	56
Person trips	74	-	74
Person nights spent in Hawaii	385	-	385

NA Not available.

1/ The sample for Hawaii was limited to Oahu residents; consequently, the data on trips originated in Hawaii include interisland travel by Oahu residents but generally exclude interisland travel by Neighbor Island residents. Moreover, the survey excluded travel under 100 miles from home to destination, and thus excluded any trips by Oahuans to Molokai (54 miles, airport to airport) or Lanai (72 miles) where ground travel did not bring the total mileage up to the cut-off point.

2/ Person trips by Mainland residents destined for Hawaii in 1977, reported as 1,734,000 by this survey, were estimated at 2,046,566 by the Hawaii Visitors Bureau (1977 Annual Research Report, table 12).

Source follows next table.

Table 155.-- CHARACTERISTICS OF TRAVEL BY U.S. RESIDENTS TO AND THROUGH HAWAII: 1977

[See headnote to preceding table.]

Trip or traveler characteristics	Households taking trips	Persons taking trips	Household trips	Person trips	Person nights
Total	1,042	1,849	1,232	2,051	22,035
Trip characteristics					
Main purpose of trip (1,000):					
Visit relatives or friends	...	...	178	329	5,549
Business	...	...	147	189	1,258
Outdoor recreation	...	...	114	204	2,556
Entertainment	...	...	175	327	3,062
Sightseeing	...	...	377	649	6,555
On vacation trip (1,000)	...	...	1,014	1,795	20,356
Mean round trip mileage 1/	...	...	6,914	7,013	7,468
Mean duration of trip 2/ (nights)	...	...	12.9	12.8	...
Originated in Far West 3/ (1,000)	...	...	628	1,052	11,416
Mean number of persons on trip	...	...	1.6	2.0	2.1
Traveler characteristics					
Median family income (dollars)	19,243	20,398	19,637	20,422	16,641
Occupation of household head (1,000):					
White-collar workers	525	975	675	1,144	10,429
Not in labor force or unemployed	288	464	302	477	6,368
Race: Nonwhite 4/ (1,000)	80	173	102	210	2,590
Mean age 4/ (years)	48.8	41.0	46.2	40.2	39.3
Education: College 4/ (1,000)	524	796	699	909	8,737
Sex: Female 4/ (1,000)	239	974	266	1,063	11,658
Residence: Not in an SMSA (1,000)	265	409	263	424	4,981
Mean household size (persons)	2.5	2.9	2.7	2.9	3.0

1/ Trips to destinations in Hawaii only.

2/ Includes total nights spent on trip, not just nights in Hawaii.

3/ Alaska, California, Hawaii, Idaho, Nevada, Oregon, and Washington State.

4/ For household trips and households taking trips columns, information shown is that of household head.

Source: U.S. Bureau of the Census 1977 Census of Transportation, National Travel Survey, Travel During 1977, TC77-N-2 (October 1979), pp. 232-234, and unpublished data supplied February 6, 1980.

Table 156.-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF MAINLAND VISITORS TO HAWAII: 1977 TO 1980

Subject	1977	1978	1979	1980
Number of respondents in sample	5,463	5,310	5,353	5,180
Family income before taxes (percent) ..	100.0	100.0	100.0	100.0
Under $10,000	6.3	5.8	4.0	3.1
$10,000 to $14,999	12.7	10.8	10.0	7.2
$15,000 to $24,999	30.6	26.8	23.5	19.4
$25,000 to $34,999	50.4	25.6	26.2	24.1
$35,000 to $49,999		17.0	19.2	24.0
$50,000 and over		14.2	17.1	22.2
Median income (dollars)	25,000+	27,600	29,800	33,400
Education: college graduates (percent)	51.4	52.5	53.6	54.5
Using travel agent (percent)	81.0	83.5	84.1	79.6
Arrangements for Neighbor Island trips made before arrival (percent)	81.6	86.6	86.2	87.8
Islands visited (percent):				
Oahu only	27.0	24.9	24.6	26.6
Hawaii	35.8	36.5	34.3	30.2
Maui	56.7	56.0	56.8	53.4
Kauai	37.6	37.7	35.9	34.6
Molokai 1/	...	0.5	0.6	0.6
Hawaii compared with other vacation areas visited (percent)	100.0	100.0	100.0	100.0
Far superior	39.0	39.2	35.2	35.2
Above average	50.7	50.5	53.7	54.2
Average	9.2	9.4	9.9	9.4
Below average	1.0	0.8	1.1	1.0
Quite inferior	0.1	0.1	0.1	0.1

1/ Combined with Maui before 1978.

Source: Hawaii Visitors Bureau, Visitor Reaction Survey (annual summaries).

Table 157.-- VISITOR EXPENDITURES PER VISITOR DAY, BY VISITOR ORIGIN: 1974 AND 1977

[In dollars. Excludes transpacific travel costs.]

Subject	Westbound visitors 1/		Visitors from Japan	
	1974	1977	1974	1977
Total expenditure	46.20	54.62	123	146.85
By type of expenditure:				
Food and beverages	13.12	14.64	...	27.04
Restaurant 2/	10.66	12.04	...	23.10
Nightclub	1.12	1.14	...	3.94
Groceries	1.34	1.46	...	...
Entertainment	2.12	2.61	...	12.41
Attractions	1.58	2.07	...	...
Other entertainment	0.54	0.54	...	...
Transportation	5.16	6.27	...	21.14
Ground transportation 3/ ..	2.55	1.21	...	3.94
U-drive		1.80	...	...
Interisland travel	1.26	2.00	...	17.20
Sightseeing tours	1.35	1.26	...	...
Clothing	4.96	4.98	...	8.37
Gifts and souvenirs	4.46	5.23	41	51.40
Lodging	13.34	17.37	...	16.80
All others	2.22	2.69	...	9.69
Unclassified	0.82	0.83	...	...
By place of expenditure:				
Oahu	46.75	54.17	...	...
Other islands	45.16	49.97	...	...
By travel status:				
In organized tour groups	52.06	60.04	...	...
Individual visitors	42.91	51.64	...	...
Sample size (number of parties)	1,669	1,582	190	638

1/ Mostly residents of the Mainland United States, but also including some residents of Australia, Asia, and the South Pacific returning home from trips to the Mainland United States.

2/ Figure for 1977 visitors from Japan refers to total expenditures for food.

3/ Figure for 1977 visitors from Japan refers to total transportation expenditures excluding interisland travel.

Source: Hawaii Visitors Bureau, 1974 Visitor Expenditure Survey (July 1975), pp. 4-6; 1977 Visitor Expenditure Survey (July 1978), pp. 4-6 and 32; and records.

Table 158.-- AVERAGE EXPENDITURE PER VISITOR DAY, FOR THE STATE AND OAHU: 1931-1932 TO 1977

[In dollars.]

Years surveyed	Westbound visitors		Visitors from Japan: Statewide
	Statewide	Oahu only	
1931-1932	(NA)	17.50	(NA)
1951	28.00	(NA)	(NA)
1960-1961	32.00	(NA)	(NA)
1965-1966	(NA)	37.23	(NA)
1974	46.20	46.75	123.00
1977	54.62	54.17	146.85

NA Not available.
Source: Hawaii Visitors Bureau, 1977 Visitor Expenditure Survey (July 1978), pp. 27-33.

Table 159.-- ESTIMATED EXPENDITURES BY VISITORS TO HAWAII, BY COUNTIES: 1970 TO 1980

[In millions of dollars. Excludes expenditures by Hawaii residents.]

Year	State total	City and County of Honolulu 1/	Other counties 1/			
			Total	Hawaii	Kauai	Maui
1970	595	442	153.0	53.4	45.1	54.5
1971	705	507	198.0	67.7	56.1	74.2
1972	840	609	231.0	77.0	61.9	92.1
1973	1,020	777	243.0	81.9	63.2	97.9
1974	1,225	928	297.5	99.3	73.9	124.3
1975	1,360	1,004	355.9	114.6	87.2	154.1
1976	1,640	1,213	427.2	126.8	101.8	198.6
1977	1,845	1,377	468.5	131.2	109.9	227.4
1978	2,188	1,609	579.0	158.0	138.0	283.0
1979	2,620	1,948	672.3	172.2	159.2	340.9
1980 2/....	3,000	2,255	745.0	179.8	181.4	383.8

1/ Interisland air fares have been distributed on a prorata basis. Expenditures by eastbound visitors have been included with Oahu.

2/ Preliminary estimate.

Source: Hawaii Visitors Bureau, Neighbor Island Statistics (table, April 20, 1981).

Table 160.-- ECONOMIC ACTIVITY GENERATED BY VISITOR EXPENDITURES: 1968 TO 1980

[In millions of dollars and thousands of jobs.]

Year	Visitor expenditures	Total sales or output 1/	Household income	Tax revenues	Jobs 2/
1968	440	883.7	292.7	40.0	44.7
1969	550	1,104.6	366.1	51.9	52.4
1970	595	1,195.0	395.9	55.8	54.3
1971	705	1,415.9	469.1	67.4	61.9
1972	840	1,687.1	558.9	79.8	70.6
1973	1,020	2,048.6	678.7	100.1	79.4
1974	1,225	2,460.3	815.1	120.7	84.2
1975	1,360	2,731.1	904.9	144.9	85.3
1976	1,640	3,293.8	1,091.3	175.7	94.3
1977	1,845	3,705.5	1,227.7	193.8	98.6
1978	2,188	4,394.4	1,455.9	234.8	107.7
1979	2,620	5,261.8	1,743.5	284.8	115.0
1980	3,000	6,024.5	1,996.3	323.0	116.9

Footnotes and source follow next table.

Table 161.-- ECONOMIC ACTIVITY GENERATED BY VISITOR EXPENDITURES, BY INDUSTRY: 1979 AND 1980

[In millions of dollars and thousands of jobs.]

Industry or sector	Total visitor expenditures	Total sales or output 1/	Total household income	Jobs	
				Total 2/	Direct only
1979					
All industries 3/	2,620	5,262	1,744	115.0	76.7
Transportation	280	713	251	12.2	8.3
Communications	47	110	38	1.7	1.1
Eating and drinking places ..	437	962	279	24.0	17.2
Other retail trade 4/	134	322	112	7.5	5.6
Hotels	744	1,780	538	37.6	24.1
Health and prof. services ...	35	83	27	1.3	0.8
Other services	332	800	268	22.7	16.4
Textile and apparel mfg.	79	215	66	4.0	2.3
Other manufacturing	91	195	57	2.0	0.9
Households	77	82	107	2.0	-
1980					
All industries 3/	3,000	6,025	1,996	116.9	77.7
Transportation	320	816	288	12.7	8.4
Communications	54	126	43	1.7	1.1
Eating and drinking places ..	500	1,102	319	24.6	17.6
Other retail trade 4/	153	369	128	7.6	5.7
Hotels	852	2,038	616	37.6	24.1
Health and prof. services ...	41	95	31	1.3	0.8
Other services	380	916	307	23.5	16.9
Textile and apparel mfg.	90	246	75	4.0	2.3
Other manufacturing	104	223	66	2.0	0.9
Households	88	93	123	2.0	-

1/ Direct, indirect, and induced sales.

2/ Direct, indirect, and induced jobs.

3/ Detail may not add to indicated total, because of definitional differences.

4/ Expenditure figure refers to income earned and not to the value of sales.

Source: Hawaii State Department of Planning and Economic Development, Tourism and Hawaii's Economy: An Input-Output Analysis (Hawaii Economic Research Reports, April 1980), and unpublished 1979 and 1980 estimates based on the DPED Input-Output Model.

Table 162.-- MEETINGS AND CONVENTIONS: 1978 TO 1980

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue ($1,000)
1978	536	230,273	106,963	113,135
1979 1/	574	178,753	88,481	94,049
1980	545	230,891	104,045	141,544

1/ Revised from 1980 edition, table 144.

Source: Hawaii Visitors Bureau, Meetings & Conventions Department.

Table 163.-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES: 1971 TO 1983

[In dollars.]

Year ending June 30	Income				Expenditures
	Total	State appropriations 1/	Private subscriptions	Other 2/	
1971	2,224,835	1,669,282	524,165	31,388	2,224,755
1972	2,247,494	1,689,261	535,918	22,315	2,245,724
1973	2,280,231	1,687,908	568,817	23,506	2,243,808
1974	2,289,946	1,692,963	557,706	39,277	2,259,602
1975	2,272,313	1,687,696	554,424	30,193	2,291,405
1976	2,466,570	1,798,452	629,418	38,700	2,473,050
1977	2,743,622	1,912,238	663,289	168,095	2,743,610
1978	2,908,365	1,975,360	735,962	197,043	2,902,134
1979	3,071,748	2,062,036	790,033	219,679	3,003,599
1980	3,140,200	2,069,728	799,978	270,494	3,118,998
1981	3,337,771	2,052,727	941,542	343,502	3,285,624
1982	(NA)	2,123,000	(NA)	(NA)	(NA)
1983	(NA)	2,111,000	(NA)	(NA)	(NA)

NA Not available.

1/ Data for 1969-1981 are net after any refunds to the State.

2/ May include income from mainland promotional programs, literature sales, convention servicing, and interest.

Source: Hawaii Visitors Bureau, *Financial Statements and Schedules* (annual), and records.

Table 164.-- AREAS VISITED BY HAWAII RESIDENTS TRAVELING OUT OF THE STATE: 1979

[Data obtained from a telephone survey of 500 adults, 18 years old and over, living in regular housing units. Coverage excludes persons under 18 and all occupants of institutions and military barracks.]

Destination area	Percent of all residents visiting this area in 1979	Percent of all 1979 vacation travelers visiting this area at least once 1/	Percent of all 1979 vacation trips including visit to this area 1/
California	21.2	60.2	45.9
Nevada	12.0	34.1	28.5
Alaska	0.4	1.1	0.8
Pacific Northwest	3.8	10.8	8.5
Southwest States	1.0	2.8	2.0
Rocky Mountain States	2.0	5.7	4.5
Central States	3.8	10.8	9.8
Southern States	3.2	9.1	8.5
Eastern States	4.4	12.5	11.4
Canada	2.0	5.7	4.1
Mexico	0.8	2.2	2.0
Caribbean	0.4	1.1	0.8
South America	0.0	0.0	0.0
Pacific Islands	0.2	0.6	0.4
Australia/New Zealand	0.6	1.7	1.2
Japan	1.6	4.5	3.3
Philippines	1.4	4.0	2.8
China, Korea	0.8	2.3	1.6
Southeast Asia	0.6	1.7	1.2
Indian Subcontinent	0.2	0.6	0.4
Middle East	0.4	1.2	1.2
Africa	0.0	0.0	0.0
Europe	1.4	4.0	2.8
Sample size	500	176	246

1/ Total exceeds 100 percent because respondents could name more than one destination per trip.

Source: John M. Knox and Juanita C. Liu, Out-of-State Recreational Travel by Hawaii Residents (Hawaii State Department of Planning and Economic Development, April 1980), p. 31.

Table 165.-- CHARACTERISTICS OF RESIDENTS RETURNING FROM THE MAINLAND: 1961 TO 1980

Subject	1961 1/	1967	1972	1977	1979 2/	1980
Number returning	41,450	130,995	171,772	179,298	130,914	197,799
Oahu residents (percent) 3/ .	86.0	88.0	87.2	84.9	84.5	84.9
Median age (years)	32.9	...	...	...	36.7	37.9
Males per 100 females	125.9	...	...	...	103.2	100.8
Persons per party	1.35	1.24	1.36	1.39	1.40	1.42
High-status occupations: 4/						
Percent of all party heads	44.9	...	...	...	50.9	54.8
Percent of civilian workers	72.2	...	...	...	75.6	78.0
Days absent: Median 5/	23.7	18.4	13.8	13.5	11.7	11.6
Average 5/	49.6	45.9	25.3	20.6	18.1	17.0
Average number absent 5/	5,200	14,800	11,900	10,100	6,500	9,200

1/ Year ended June 30.

2/ Data on number returning and average number absent appear to be greatly understated.

3/ Data for 1967, 1972, 1979 and 1980 exclude persons specifying military bases rather than island of residence. If these respondents are allocated to Oahu, the Oahu percentage for 1980 is 85.2.

4/ Party heads reporting professional, technical, business, managerial, and official occupations.

5/ For persons absent 1 to 365 days.

Source: Hawaii State Department of Planning and Economic Development, Out-of-State Travel by Hawaii Residents During 1980 (Statistical Report 145, May 2, 1981), table 2.

Table 166.-- PASSPORTS ISSUED, BY FIRST AREA DESTINATION: 1977 TO 1980

Passport category and first area destination	1977	1978	1979	1980
Issued by Honolulu Passport Agency 1/ ..	28,355	28,533	28,974	31,928
Issued to Hawaii residents, total 2/ ...	27,020	28,280	26,170	28,800
Europe	6,770	11,280	8,470	9,730
Mid East	380	330	260	430
Far East	12,320	9,980	9,580	10,190
North, Central, and South America	850	1,030	820	1,000
Africa	120	200	60	120
Australia and Oceania	6,580	5,460	6,980	7,320
World tour	-	-	-	10

1/ Includes passports issued to persons not residing in Hawaii.

2/ Includes passports issued by offices not in Hawaii.

Source: U.S. Department of State, Bureau of Consular Affairs, Summary of Passport Statistics (January 1981) and information supplied June 11, 1981.

Table 167.-- HONOLULU SYMPHONY ORCHESTRA: 1974-1975 TO 1980-1981

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
1974-1975	80	135	198,000	1,423,911
1975-1976	80	128	224,000	1,654,510
1976-1977	80	136	200,000	1,654,050
1977-1978	75	109	194,474	1,980,720
1978-1979	75	118	192,413	2,398,020
1979-1980	75	122	186,135	2,189,172
1980-1981	80	107	155,622	2,211,082

Source: Honolulu Symphony Society, records.

Table 168.-- PERFORMING ARTS: 1979-1980 SEASON

Organization and type of performance	Productions	Performances	Attendance
Theater groups reporting	87	965	275,551
Brigham Young Univ.-Hawaii Campus	2	6	2,250
Chaminade University of Honolulu	2	16	2,800
Hawaii Loa College	2	8	1,000
Hawaii Performing Arts, Co., Ltd.	15	209	14,820
Honolulu Community Theatre	10	106	34,763
Honolulu Theatre for Youth	8	301	122,645
Leeward Community College	7	113	45,542
USASCH Recreation Services Theatre Guild 1/	7	53	12,480
UH/Manoa, University Theatre	29	127	36,751
Windward Performing Arts Theatre 2/	1	2	260
Windward Theatre Guild	4	24	2,240
Honolulu Department of Auditoriums	96	213	448,030
Ballets	2	5	9,435
Concerts	25	50	94,030
Operas	4	16	18,316
Rock shows	12	16	119,325
Other dramatic and musical productions ..	53	126	206,924

1/ Other activities sponsored by the Music and Theatre Branch, Recreation Services Division, Directorate of Personnel and Community Activities, U.S. Army Support Command, Hawaii, included 28 concerts and music festivals (28 performances attended by 71,256), 9 special events/Festival of the Performing Arts productions (10 performances attended by 57,400), and 63 variety shows/soldier band/touring show productions (93 performances attended by [illegible]6,435).

2/ Data for calendar year 1980.

Source: DPED mail and telephone survey of organizations listed.

Table 169.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1979 AND 1980

Island and cultural attraction	1979	1980
State total	10,992,796	11,487,204
Oahu	8,125,219	8,489,121
Bernice P. Bishop Museum 1/	300,568	270,207
Exhibition halls	150,590	166,466
Planetarium	89,754	76,134
Falls of Clyde Maritime Museum	35,915	27,607
Heritage Theatre 2/	24,309	-
Castle Park 3/	-	700,000
Contemporary Arts Center of Hawaii	20,800	25,700
Damien Museum and Archives	2,641	2,885
Foster Botanic Garden	113,894	109,502
Fred Ohrt Museum 4/	744	3,519
Honolulu Academy of Arts	147,996	166,465
Iolani Palace State Monument 1/	65,000	67,000
Kahuku Sugar Mill 5/	240,802	103,000
Mission Houses Museum 6/	23,850	22,820
Mormon Temple Grounds 7/	285,728	274,977
National Memorial Cemetery of the Pacific	2,586,678	2,594,934
Pacific Submarine Museum	35,998	53,903
Paradise Park	335,000	300,000
Polynesian Cultural Center	1,100,000	986,000
Queen Emma Summer Palace	19,444	17,562
Royal Mausoleum State Monument 1/	88,000	86,000
Sea Life Park 8/	650,000	624,188
Tennant Art Foundation Gallery	(NA)	(NA)
Tropic Lightning Historical Center 9/	13,000	3,645
U.S. Army Museum, Ft. DeRussy	134,018	150,161
U.S.S. Arizona Memorial	1,237,759	1,205,677
By Navy boats	728,224	761,009
By civilian boats	509,535	444,668
Wahiawa Botanic Garden	60,337	53,304
Waikiki Aquarium	257,951	246,707
Waimea Falls Park	405,011	420,965
Hawaii	2,371,639	2,469,119
Hulihee Palace	14,154	20,105
Kamuela Museum	18,739	(NA)
Kilauea Visitor Center 10/	2,266,713	2,367,911
Lapakahi State Park 1/	40,000	52,000
Lyman House Memorial Museum	32,033	25,103
Mookini Heiau 1/	(NA)	4,000

Continued on next page.

Table 169.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1979 AND 1980 -- Con.

Island and cultural attraction	1979	1980
Maui	86,259	107,177
Baldwin Home Museum	34,875	30,575
Brig *Carthaginian* 11/	-	32,204
Hale Hoikeike	7,384	7,398
Halekii-Pihana State Monument 1/	44,000	37,000
Kauai	398,761	411,364
Hanalei Museum	6,500	7,000
Kauai Museum 12/	24,084	27,642
Kokee Natural History Museum	94,577	84,397
Russian Fort State Monument 1/	267,000	287,000
Waioli Mission House Museum	6,600	5,325
Molokai	10,918	10,423
Kalaupapa Settlement	10,918	10,423

NA Not available.

1/ Years ended June 30.

2/ Closed June 30, 1979.

3/ Opened end of June 1980.

4/ Opened August 1979.

5/ Closed December 31, 1980.

6/ 1980 figure is for year ended September 30.

7/ Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitors' Center. The 1979 figure has been revised from the 1980 edition, table 150.

8/ Years beginning March 1.

9/ Figure for 1979 is a rough estimate and may not be comparable to 1980.

10/ Located in Hawaii Volcanoes National Park. The attendance shown for the Visitor Center is actually the National Park total.

11/ Reopened April 1980, after 8-year restoration.

12/ Years ended September 30.

Source: Data supplied to Hawaii State Department of Planning and Economic Development by park, museum, and other officials.

Table 170.-- ZOOS: 1978 TO 1980

Zoo and year	Animal and bird inventory, Dec. 31		Attendance
	Species	Individuals	
Coco Palms (Kauai):			
1978	11	45	1,081
1979	10	61	1,368
1980	6	33	5,000
Honolulu Zoo:			
1978	402	1,870	1,500,000
1979	391	1,907	1,300,000
1980	381	1,729	1,300,000
Maui Zoological & Botanical Gardens:			
1978	(NA)	111	54,450
1979	39	127	83,000
1980	38	121	80,000
Panaewa Rainforest Zoo (Hilo):			
1978	47	157	31,030
1979 1/	47	133	28,389
1980	50	149	32,353

NA Not available.

1/ Closed October 22 - December 15, 1979.

Source: Data compiled by Hawaii State Department of Planning and Economic Development from Coco Palms Resort Hotel; Honolulu Department of Parks and Recreation; Maui County Department of Parks and Recreation; and Hawaii County Department of Parks and Recreation.

Table 171.-- NATIONAL PARKS: 1970 TO 1980

Year and area	Areas, Dec. 31	Acreage, Dec. 31			Visits
		Total	Federal	Non-Federal	
1970 1/	3	257,181	232,038	25,042	1,233,226
1971 1/	3	257,181	228,707	(NA)	1,478,849
1972 1/	4	257,281	238,401	18,718	2,046,081
1973	4	257,219	238,435	18,784	2,025,593
1974	4	247,910	232,007	15,903	2,298,676
1975	4	247,910	237,732	10,178	2,559,429
1976	4	247,910	237,732	10,178	2,895,840
1977	4	247,910	237,732	10,178	2,932,555
1978	5	249,210	237,732	11,478	3,572,504
1979	5	249,210	238,000	11,210	3,384,343
1980	6	249,224	238,014	11,210	3,479,797
AREAS: 1980					
Hawaii Volcanoes National Park	...	220,345	210,730	9,615	2,367,911
Haleakala National Park	...	27,284	27,055	229	577,059
Pu'uhonua o Hōnaunau National Historical Park	...	181	181	-	372,212
Puukohola Heiau National Historic Site	...	100	34	66	21,606
Kaloko-Honokohau National Cultural Park	...	1,300	-	1,300	-
U.S.S. Arizona Memorial 2/	...	14	14	-	141,009

NA Not available.

1/ Federal and non-Federal acreage data exclude Puukohola Heiau and are not consistent with the total acreage, which refers to total area authorized as of these dates.

2/ Visits for October 10 - December 31, 1980.

Source: U.S. Department of the Interior, National Park Service, Pacific Area Office, records.

Table 172.-- STATE PARKS: 1970 TO 1980

Year, island, or park	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1970	41	15,584	487.7	9,520
1971	44	15,983	487.7	13,007
1972	46	16,000	543.1	9,798
1973	46	16,108	523.7	13,271
1974	53	16,629	533.9	12,907
1975	53	18,181	578.9	12,124
1976	55	18,577	606.6	14,305
1977	58	20,151	681.8	18,864
1978	64	20,295	706.8	15,966
1979	65	20,625	880.0	17,911
1980	66	20,637	916.7	17,169
ISLANDS: 1980				
Hawaii	17	2,160.9	310.3	3,507
Maui	11	199.9	50.5	2,886
Molokai	1	233.7	10.0	150
Oahu	25	8,644.3	345.7	2,898
Kauai	12	9,397.8	200.2	7,728
MAJOR PARKS: 1980 1/				
Wailua River State Park 2/	...	1,061.7	16.7	2,613
Kokee State Park	...	4,640.0	55.0	1,104
Fern Grotto 3/	...	14.6	14.6	1,084
Waimea Canyon State Park	...	1,866.4	10.0	1,082
Nuuanu Pali Wayside	...	5.0	2.5	979
Olowalu-Kaanapali Wayside	...	14.0	14.0	969
Hana Road Waysides	...	14.3	4.0	940
Lydgate 3/	...	36.7	36.7	865
Wailuku River Rec. Area	...	81.0	24.9	768
Hapuna Beach State Park	...	300.0	26.8	765
Iao Valley State Park	...	5.9	5.9	757
Akaka Falls State Park	...	65.4	6.0	711
Kahana Valley State Park	...	5,260.0	10.0	(NA)

NA Not available.

1/ Parks with more than 500,000 recreation visits during the year, or with more than 1,500 total acres.

2/ Excluding Fern Grotto and Lydgate sections.

3/ Part of Wailua River State Park.

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, Outdoor Recreation and Historic Sites, unpublished tables.

Table 173.-- COUNTY PARKS: 1979 AND 1980

[As of December 31.]

County	Number of areas		Acreage	
	1979	1980	1979	1980
State total	595	617	7,829	8,187
Hawaii	129	133	1,416	1,440
Maui	90	89	894	944
Honolulu	318	338	5,001	5,279
Kauai	58	57	518	524

Source: Information obtained by the Hawaii State Department of Planning and Economic Development from the City and County of Honolulu Department of Parks and Recreation, Hawaii County Department of Parks and Recreation, Kauai County Department of Public Works, and Maui County Department of Parks and Recreation.

Table 174.-- SELECTED RECREATIONAL ACTIVITIES: 1978 TO 1980

Subject	1978	1979	1980
Camping permits issued (Oahu)	9,569	8,414	6,744
Licenses issued (years ended June 30):			
Freshwater game fishing	8,804	8,208	7,815
Hunting	11,925	11,680	11,905
Public golf courses (Oahu):			
Number of courses	4	4	4
Holes	63	63	63
Rounds played	398,337	351,204	424,426
Visitors to Mauna Kea during skiing season	(NA)	4,836	(NA)

NA Not available.

Source: Hawaii State Department of Land and Natural Resources, records; City and County of Honolulu, Department of Parks and Recreation, records.

Table 175.-- RECREATION RESOURCES AND FACILITIES AND RELATED OPEN SPACE ACREAGE: 1975 AND 1980

Category	State totals		Counties: 1980			
	1975	1980	Honolulu	Hawaii	Kauai	Maui
Total acreage 1/	1,468,368	1,584,042	132,111	936,864	213,809	301,258
Recreation resources (acres):						
Park-related beach	285	366	195	16	99	56
Hunting areas	899,468	924,283	20,027	608,100	125,926	170,230
Recreation facilities:						
Improved acreage 1/	4,979	5,186	2,722	1,264	682	518
Active	2,410	2,559	1,362	575	376	246
Passive	2,019	2,198	1,091	614	282	211
Service	393	434	268	75	30	61
Linear facilities (miles):						
Trails	424	827	109	429	155	170
Bikeways	-	41	38	-	3	-

1/ Detail does not always add to indicated totals, for unstated reasons.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), p. 57.

Table 176.-- RECREATIONAL FACILITIES AND RESOURCES, BY COUNTIES: 1980

Type of facility or site	State total	Honolulu	Hawaii	Kauai	Maui
Active parks (sites)	428	272	65	38	53
Public	220	122	38	28	32
DOE and UH 1/	208	150	27	10	21
Swimming pools	52	35	7	5	5
Sport fields	481	302	69	61	49
Public	349	220	42	54	33
DOE and UH 1/	132	82	27	7	16
Sport courts	792	622	67	47	56
Public	555	473	19	35	28
DOE and UH 1/	237	149	48	12	28
Tennis courts	494	304	69	71	50
Public	258	178	38	19	23
Private	87	21	13	42	11
DOE and UH 1/	149	105	18	10	16
Golf courses (sites)	40	17	9	4	10
Public	8	5	1	1	1
Private	32	12	8	3	9
Boat lanes	66	25	19	13	9
Boat moorages	2,385	1,820	297	91	177
Sandy beaches (sites) ...	221	103	29	40	49
Improved park	84	43	8	18	15
Unimproved	137	60	21	22	34
Picnicking sites	170	65	42	26	37
Beach	113	47	29	19	18
Inland	57	18	13	7	19
Camping sites	64	21	19	13	11
Beach	51	20	14	12	5
Inland	13	1	5	1	6

1/ Hawaii State Department of Education and University of Hawaii.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), pp. 67, 69, 71, 73, and 75.

Table 177.-- RESIDENT PERCENTAGE PARTICIPATION IN SPECIFIED RECREATIONAL ACTIVITIES: 1971, 1975 AND 1980

Activity	State totals			Counties: 1980			
	1971	1975	1980	Honolulu	Hawaii	Kauai	Maui
Walking	9	12	23	25	16	20	16
Jogging	2		9	10	5	5	6
Hiking	2	1	2	1	1	3	2
Camping	2	5	3	3	2	2	3
Group camping			0	0	3	0	0
Picnicking	8	12	10	9	15	8	15
Hunting	1	0	0	0	1	0	0
Golf	3	3	2	2	1	1	2
Swimming/sunbathing	30	21	16	15	18	15	19
Diving	2	3	2	2	3	2	3
Surfing	2	4	2	2	1	4	3
Boating	2	2	3	2	2	2	1
Canoe paddling	(B)	1	0	0	2	0	0
Fishing	6	4	3	3	3	4	5
Field games	3	10	4	4	3	5	2
Court games	3		2	3	2	1	2
Playground equipment	(B)		2	2	3	3	1
Tennis	(B)	2	2	2	2	2	2
Outdoor events	5	8	2	2	1	1	1
Bicycling	11	10	9	9	14	10	9
Motorcycling	(B)	1	1	1	1	1	1
Sightseeing	8	(B)	3	3	2	6	6
Other activities ...	(B)	3	3	3	2	2	3

B Insufficient sample size.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), pp. 84-85, and records.

Table 178.-- VISITOR PERCENTAGE PARTICIPATION IN SPECIFIED RECREATIONAL ACTIVITIES: 1968 AND 1980

Activity	State totals		Counties: 1980			
	1968	1980	Honolulu	Hawaii	Kauai	Maui
Walking	19	31	34	27	30	26
Jogging	(B)	2	2	4	0	3
Hiking	(B)	2	1	3	4	2
Camping/group camping	0	1	0	2	2	1
Picnicking	(B)	3	3	4	4	3
Hunting	0	0	0	1	0	0
Golf	3	2	1	0	3	4
Swimming/sunbathing ..	42	26	27	20	22	26
Diving	1	3	2	6	4	5
Surfing	3	3	2	2	3	3
Boating	2	3	2	6	6	1
Canoe paddling	(B)	0	0	0	0	0
Fishing	1	1	0	2	0	1
Field games	0	0	1	0	0	0
Court games		0	0	0	0	0
Playground equipment .		0	0	0	0	0
Tennis		2	1	1	4	2
Outdoor events	9	3	3	1	1	3
Bicycling	(B)	0	0	0	0	0
Motorcycling	(B)	1	1	0	0	1
Sightseeing	21	18	19	21	18	17
Other activities	(B)	0	0	1	0	1

B Insufficient sample size.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), pp. 86-87.

Table 179.-- GOLF COURSES AND TENNIS COURTS, BY ISLANDS: 1980-1981

[Excludes facilities operated by the armed forces.]

Island	Golf courses 1/			Public tennis facilities 2/	
	9-hole	18-hole	27-hole	Locations	Courts
State total ..	7	31	1	79	245
Hawaii	2	6	-	21	45
Maui	1	6	-	10	32
Lanai	1	-	-	1	2
Molokai	1	1	-	-	-
Oahu	2	16	-	39	146
Kauai	-	2	1	8	20
Niihau	-	-	-	-	-

1/ As of July 1980.

2/ Facilities operated by the county governments, as of March 1981.

Source: Golf courses from the Hawaii Visitors Bureau, Golf & Tennis in Hawaii (pamphlet, November 1980). County tennis facilities compiled from the county departments of parks and recreation by the Hawaii State Department of Planning and Economic Development.

Table 180.-- WATER RECREATION FACILITIES AND RESOURCES, BY ISLANDS: 1980

Island	Small craft mooring facilities capacity 1/		Miles of sandy shoreline 2/		Number of surfing sites 3/
	Catwalks and piers	Other mooring areas	Total	Primary 4/	
Six major islands .	1,108	875	184.9	24.4	1,600
Hawaii	26	323	19.4	1.2	185
Maui	41	145	32.6	7.9	212
Lanai	24	-	18.2	-	99
Molokai	3	29	23.2	-	180
Oahu	956	341	50.3	12.5	594
Kauai	58	37	41.2	2.8	330

1/ As of December 1980.

2/ Surveyed in 1962.

3/ Surveyed in 1971. A surfing site is defined as "a specific wave-breaking zone caused by a shoal and having sufficient consistency to be identified as a surfable riding area, either seasonally or in a combination of seasons, e.g., Queen's Surf, Waikiki."

4/ Safe, clean, accessible, and generally suitable for swimming.

Source: Hawaii State Department of Transportation, Harbors Division, Small Craft Mooring Facilities Utilization Report (monthly); Hawaii State Department of Planning and Economic Development, Hawaii's Shoreline (1965), p. 7; Surfing Education Association, The 1971 Statewide Surfing Site Survey, Vol. 1, p. 93.

Table 181.-- HONOLULU MARATHON FINISHERS AND WINNING TIMES: 1973 TO 1980

Year	Number of finishers	Winning time (hr., min., sec.)	
		Men	Women
1973	151	2:27:34	3:25:31
1974	297	2:23:02	3:01:59
1975	706	2:17:24	2:49:24
1976	1,443	2:20:37	2:44:44
1977	2,900	2:18:38	2:48:08
1978	5,587	2:17:05	2:43:10
1979	6,512	2:16:13	2:40:07
1980	6,630	2:16:55	2:35:26

Source: Honolulu Marathon Association, records.

Table 182.-- PROFESSIONAL BASEBALL (HAWAII ISLANDERS): 1979 TO 1981

Season	Games					Home openings	
	Number played	Won	Lost	Percent won	Ahead or behind	Number	Attendance
1979:							
First half	74	42	32	.568	+1 1/2	35	73,537
Second half	74	30	44	.405	-11	33	102,512
Div. playoffs	3	2	1	.667	...	-	-
Champ. playoffs	3	-	3	.000	...	-	-
1980:							
First half	65	40	25	.615	+4	37	66,357
Second half	76	36	40	.474	-8	27	71,420
Div. playoffs	3	2	1	.667	...	3	10,553
Champ. playoffs	5	2	3	.400	...	-	-
1981:							
First half	66	35	31	.530	+ 1 1/2	37	72,105
Second half	71	37	34	.521	- 6 1/2	28	85,973
Div. playoffs	3	1	2	.333	...	3	16,294

Source: Ferd Borsch, Islanders scorer, records.

Table 183.-- VARSITY SPORTS AT THE UNIVERSITY OF HAWAII-MANOA: 1978-1979 TO 1980-1981

[Data limited to games played against four-year collegiate teams.]

Sport and school year	All games			Home games	
	Won	Lost	Tied	Home dates	Attendance
Baseball: 1/					
1978-1979	69	15	-	45	81,162
1979-1980	60	18	-	40	32,931
1980-1981	50	16	-	38	40,972
Basketball: 2/					
1978-1979	10	17	-	20	71,902
1979-1980	13	14	-	18	64,019
1980-1981	14	13	-	18	83,785
Football:					
1978-1979	6	5	-	9	327,295
1979-1980	6	5	-	9	334,364
1980-1981	8	3	-	8	342,862

1/ Including the Rainbow Easter Tournament and post-season play.
2/ Including the Rainbow Classic.
Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Information Office, records.

Table 184.-- PUBLIC HIGH SCHOOL SPORTS: 1979-1980 SEASON

[Includes both boys' and girls' sports. Excludes pre-season and post-season games.]

Sport	Games	Attendance	Expenditure 1/ (dollars)
Baseball	328	59,480	108,730
Basketball	810	87,255	298,472
Football	256	240,525	318,883

1/ Data reflect both general and trust funds.
Source: Data supplied by Hawaii State Department of Education, Office of Instructional Services, Athletics Program, September 23, 1980.

Table 185.-- HOUSEHOLDS WITH SPECIFIED PETS, BY TYPE: 1970

Pet	Number of households with pets		Percent of households with pets		Number of pets in households 1/	
	State total 2/	Oahu only	State total 2/	Oahu only	State total 2/	Oahu only
Dogs	59,200	44,600	29.1	27.1	85,000	59,600
Cats	34,200	24,200	16.8	14.7	65,800	40,700
Pet birds ...	14,800	12,700	7.3	7.7	...	...
Fish	20,600	18,200	10.1	11.0	...	...
Turtles	5,400	4,600	2.7	2.8	...	...
Rodents 3/ ..	6,320	5,270	3.1	3.2	...	...

1/ Not compiled for pets other than dogs and cats.

2/ Excluding Niihau.

3/ Rabbits, guinea pigs, rats, mice, and chinchillas.

Source: John V. Gooch, D.V.M., Public Health Veteranarian, Communicable Disease Division, Hawaii State Department of Health.

Table 186.-- LICENSED DOGS, BY ISLAND: 1979 AND 1980

[As of December 31.]

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1979	46,450	4,682	4,706	111	383	34,954	1,614
1980	61,115	6,069	4,820	122	398	48,407	1,299

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Section 8

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the revenues, expenditures, debt, and civilian employment of Federal, State and County governments in Hawaii.

Local government is vested in one combined city-county (Honolulu, consisting of the Island of Oahu and several outlying islets), three non-metropolitan counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the State Department of Health. Separate municipal governments do not exist.

Tax collections by Federal, State and County governments in fiscal 1980 reached $2,966 million, almost triple the level reported ten years earlier. The 1980 total included $1,670 million in U.S. taxes, $1,256 million in State taxes, and $40 million in County taxes, licenses and fees. Individual income taxes accounted for 83 percent of Federal collections and 23 percent of State collections in Hawaii in 1980. State revenue receipts totaled $1,760 million, chiefly from the General Excise and Use Tax ($499 million) and Federal grants-in-aid ($374 million). The largest expenditure item in the State accounts for 1980 was education, with $512 million (out of $1,816 million) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax (which in 1980 was still assessed and collected by the State) and grants-in-aid for their revenues, and reported police and fire protection as their largest single expenditure item. Assessed valuation of the State tripled between 1970 and 1980, reaching $21.9 billion by the end of the decade; of this total, $7.0 billion was exempt from taxation. Public bonded debt outstanding at the end of 1980 exceeded $2.05 billion.

Total government employment reported for April 1981 was 91,000, about 16 percent over the 1971 average. The April 1981 total included 30,000 Federal workers, 48,000 persons employed by the State, and 13,000 persons on County payrolls. State civil service employees as of mid-1980 numbered 17,000.

Important sources for statistics on government in Hawaii include the U.S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and the County auditors and finance directors, and an annual compilation issued by the Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics. Data extending back to the middle of the 19th century are summarized in Historical Statistics of Hawaii, Section 25. Comparable Mainland statistics appear in the Statistical Abstract of the United States: 1980, Sections 9 and 10.

Table 187.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1970 TO 1980

Year	All levels of government			Federal 1/ ($1,000)	State 2/ ($1,000)	County 2/ ($1,000)
	Amount ($1,000)	Per capita 3/ (dollars)	Percent of personal income 4/			
1970	1,057,376	1,363	30.1	602,998	438,397	15,981
1971	1,105,657	1,380	29.4	608,051	480,690	16,916
1972	1,162,700	1,404	28.3	632,583	512,047	18,070
1973	1,327,151	1,560	28.9	735,359	571,689	20,104
1974	1,512,414	1,744	29.3	840,089	650,855	21,470
1975	1,852,804	2,096	32.3	1,087,520	743,926	21,358
1976	1,821,934	2,020	29.3	945,899	850,639	25,396
1977	2,038,328	2,225	30.0	1,106,687	905,959	25,682
1978	2,228,779	2,399	29.6	1,208,480	986,182	34,117
1979	2,620,195	2,758	31.3	1,455,226	1,127,677	37,292
1980	2,966,128	3,048	31.7	1,670,459	1,255,622	40,047

1/ Fiscal years ended June 30 through 1976 and September 30 thereafter.
2/ Fiscal years ended June 30.
3/ Based on estimated total resident population, June 30.
4/ Based on personal income estimates for calendar years.

Source: Tax Foundation of Hawaii, *Government in Hawaii: A Handbook of Financial Statistics* (annual). Per capita collections and percentages calculated by DPED.

Table 188.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES: 1970 TO 1980

[In thousands of dollars.]

Source	1970 1/	1979 2/	1980 2/
Total, all levels	1,057,376	2,620,195	2,966,128
Federal collections	602,998	1,455,226	1,670,459
Indiv. income and employment	490,710	1,211,243	1,412,330
Corp. income and excess profits	84,519	199,747	213,216
Other sources	27,769	44,236	44,913
State collections	438,397	1,127,677	1,255,622
General excise and use	162,904	430,850	498,670
Fuel	26,181	48,319	51,053
Liquor	7,482	20,434	12,948
Public service companies	14,105	33,925	32,458
Corporate income 3/	14,578	32,273	42,424
Indiv. income, net income 4/	105,019	264,557	311,404
Real property	75,839	174,343	186,218
Unemployment compensation	14,246	75,458	67,536
Other sources	18,043	47,518	52,911
County collections	15,981	37,292	40,047
Motor vehicle weight	10,070	21,948	22,727
Other sources	5,911	15,344	17,320

1/ Fiscal year ended June 30.

2/ Fiscal year ended September 30 for federal collections and June 30 for state and county collections.

3/ Includes payments of estimated taxes less refunds.

4/ Includes withheld and estimated taxes less refunds, and delinquent compensation tax (repealed January 1, 1958).

Source: Tax Foundation of Hawaii, Government in Hawaii, 1981, pp. 20 and 36.

Table 189.-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU: 1978 AND 1980

[Based on a gross family income equivalent to four times the per capita personal income estimated for Hawaii.]

Tax category 1/	1978 (dollars)	1980 (dollars)	Percent increase
Total tax burden 2/	12,308	15,233	23.8
Direct taxes	8,921	12,555	40.7
Real property	529	659	24.6
Automobile	219	233	6.4
General excise (sales)	463	529	14.3
Specific excise	52	120	130.8
State income	1,758	2,209	25.7
Federal income	4,206	6,684	58.9
Social Security	1,694	2,121	25.2
Employment taxes paid by employer	3,596	4,755	32.2
Social Security	1,694	2,121	25.2
Unemployment Compensation	770	532	-30.9
Workers' Compensation	1,005	1,940	93.0
Temporary Disability	127	162	27.6
Assumed gross family income	30,708	36,892	20.1
Net income	18,400	21,659	17.7
Consumer price index (1967=100)	184.1	228.5	24.1

1/ For underlying assumptions, see source.

2/ Based on four times the per capita overall tax burden, including corporate income taxes, and not on the sum of the direct and employment taxes listed in this table.

Source: Tax Foundation of Hawaii, The Tax Burden of the Arnie Aloha Family (April 1979 and May 1981).

Table 190.-- STATE REVENUE RECEIPTS: 1979 AND 1980

[In thousands of dollars. Years ended June 30. Due to reclassification of funds, amounts not exactly comparable to prior years. Excludes certain Trust and Agency funds to avoid duplication.]

Source of revenues	1979: all funds	1980		
		All funds	General fund	Special fund
Total 1/	1,577,866	1,760,187	1,049,764	710,423
Tax revenues	955,553	1,061,454	950,421	111,033
General excise	430,850	498,670	498,670	-
Specific excises 2/	129,163	124,299	81,193	43,106
Individual income	264,557	311,404	311,404	-
Corporate income	32,273	42,423	42,423	-
Unemployment compensation	82,776	67,536	-	67,536
Other taxes, licenses, permits 3/	15,934	17,122	16,731	391
Fines, forfeits, and escheats	5,690	5,989	5,540	449
Federal grants-in-aid	337,364	374,405	7,751	366,654
Revenues from other agencies	1,412	1,745	906	839
Rents, royalties, land income	44,593	86,849	43,347	43,502
Earnings: general departments	99,340	97,798	35,318	62,480
Earnings: public service enterp.	70,306	76,784	-	76,784
Repayment debt costs: counties	527	151	151	-
Interest earned	477	657	657	-
Miscellaneous	62,603	54,355	5,673	48,682

1/ Excludes transfers and repayments except as shown.
2/ Includes public utilities, tobacco, liquor, insurance and fuel taxes.
3/ Includes franchise tax, inheritance and estate taxes, and conveyance tax.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1981, p. 19.

Table 191.-- STATE OPERATING EXPENDITURES, BY FUNCTION: 1970 TO 1980

[In thousands of dollars. For years ended June 30. Due to reclassification of funds, 1979 and 1980 data are not exactly comparable to prior years. Data include general and special fund expenditures; Unemployment Trust Fund treated as a special fund. Interfund transfers eliminated to avoid duplication.]

Functions	1970	1979	1980
Total	570,214	1,482,995	1,815,855
General government: Control	10,326	27,609	27,953
Staff	20,512	63,308	62,879
Public safety: Police and fire .	120	2,691	1,957
Other protection	24,690	43,200	46,448
Highways	11,890	42,682	32,456
Natural resources	14,589	15,864	20,623
Health and sanitation	8,568	30,956	39,586
Hospitals and institutions	27,019	78,755	86,524
Public welfare	48,796	243,717	253,411
Education: Higher	76,550	173,869	189,123
Public schools	134,534	282,120	305,618
Libraries and other .	6,779	15,508	17,324
Recreation	1,346	8,462	11,034
Utilities and other enterprises	18,642	51,609	45,485
Debt service 1/	28,158	139,028	148,847
Retirement and pension	23,581	62,261	64,447
Employees' health and hosp. insurance	4,870	13,487	13,651
Salary adjustments	4,854	-	-
Unemployment compensation	17,377	44,052	44,781
Grants-in-aid to counties	13,607	20,650	18,223
Urban redevelopment and housing	2,861	38,668	280,509
Miscellaneous	5,113	13,354	14,637
Cash capital improvements 2/ ...	65,431	71,146	90,338

1/ Debt service on revenue bonds reimbursable from highway funds included in Highways; from airport and harbor funds under Utilities; from Sand Island receipts, Land Revolving and Veterans' Home Loan funds under Miscellaneous.

2/ Special funds account for $71,111,203 in 1979 and $90,274,894 in 1980.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1981, p. 45.

Table 192.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1970 TO 1980

[In thousands of dollars. For years ended June 30.]

Subject	1970	1979	1980
OPERATING REVENUES 1/			
Total	144,448	405,871	417,827
Real property taxes	75,847	174,334	186,209
Other taxes	20,495	35,061	39,736
Fees, licenses and permits	5,576	9,813	10,761
Departmental earnings 2/	8,266	33,420	37,830
State grants	20,290	26,534	23,508
Federal grants	7,405	122,310	108,046
Other sources	6,569	4,400	11,738
OPERATING EXPENDITURES 3/			
Total	136,610	387,417	408,682
General government	17,481	46,752	45,678
Police and fire	30,149	77,243	82,161
Other protection	6,309	15,246	13,127
Highways	11,935	20,922	21,656
Health and sanitation	9,798	25,710	29,617
Public welfare	91	5,052	4,022
Public schools	312	518	503
Recreation	10,490	26,739	27,334
Interest	6,640	15,214	15,269
Bond redemption	12,204	18,978	21,089
Pension and retirement	8,674	26,852	31,485
Economic and urban development 4/	4,621	39,854	28,968
Mass transit	630	25,222	24,094
Miscellaneous	2,842	17,777	19,620
Cash capital improvements	14,433	25,336	44,058

1/ Excludes loan, bond, revolving, and certain trust funds and Water Supply revenues.

2/ Includes rentals, interest and other earnings.

3/ Excludes certain revolving, bond, and Act 97, SLH 1965 fund expenditures and loan repayments.

4/ Includes expenditures from federal employment (CETA) and redevelopment grants.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1981, pp. 32, 33, 46, and 47.

Table 193.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1980

[In thousands of dollars. For year ended June 30.]

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES 1/				
Total	324,707	28,424	44,520	20,175
Real property taxes	145,002	11,627	21,603	7,977
Other taxes	30,000	3,182	4,424	2,130
Fees, licenses and permits	7,797	1,072	1,208	595
Departmental earnings 2/	30,208	2,999	2,696	1,926
State grants	8,925	5,020	6,010	3,552
Federal grants	92,074	4,329	8,190	3,452
Other sources	10,701	195	389	543
OPERATING EXPENDITURES 3/				
Total	311,805	32,133	44,206	20,538
General government	26,783	7,451	7,099	4,346
Police and fire	60,041	6,400	11,152	4,567
Other protection	8,552	939	3,214	422
Highways	12,982	2,884	4,388	1,402
Health and sanitation	24,770	2,360	1,818	669
Recreation	20,254	2,255	3,394	1,431
Interest	11,148	768	2,548	804
Bond redemption	17,061	1,242	1,721	1,065
Pension and retirement	22,148	2,230	5,199	1,908
Economic and urban development 4/	28,968	-	-	-
Mass transit	23,429	-	665	-
Miscellaneous	14,940	3,497	2,831	3,545
Cash capital improvements	40,729	2,107	177	379

1/ Excludes loan, bond, revolving, and certain trust funds and Water Supply revenues.

2/ Includes rentals, interest and other earnings.

3/ Excludes certain revolving, bond, and Act 97, SLH 1965 fund expenditures and loan repayments.

4/ Includes expenditures from federal employment (CETA) and redevelopment grants.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1981, pp. 32, 33, 46, and 47.

Table 194.-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1979 AND 1980

[In thousands of dollars. Detail by source is subject to reporting and processing errors.]

Source of revenue	Tax base		Tax collections	
	1979	1980	1979	1980
All sources	17,142,970	19,008,209	466,535	527,304
Sources taxed at 4%	10,891,209	12,374,081	435,648	494,963
Retailing	5,519,889	6,103,844	220,796	244,154
Services	1,412,195	1,743,003	56,488	69,720
Contracting	1,325,460	1,569,658	53,018	62,786
Theater, amusement, radio	109,143	121,562	4,366	4,862
Interest	133,242	174,790	5,330	6,992
Commissions	307,391	286,633	12,296	11,465
Hotel rentals	672,098	708,620	26,884	28,345
All other rentals	1,027,848	1,112,095	41,114	44,484
Use (4%)	233,116	261,877	9,325	10,475
All others	150,450	291,998	6,018	11,680
No activities (4%)	377	-	15	-
Sources taxed at other rates 1/	6,251,745	6,634,128	30,744	32,109
Insurance solicitors	174,676	303,264	358	455
Sugar processing	305,738	527,379	1,529	2,637
Pineapple canning	164,200	195,977	821	980
Producing	156,873	143,694	784	718
Manufacturing	565,221	626,004	2,826	3,130
Blind, deaf, disabled	8,993	34,865	45	174
Wholesaling	2,800,951	2,952,011	14,005	14,760
Services (intermediary)	44,302	53,244	222	266
Use (1/2%)	2,030,945	1,797,691	10,155	8,988
No activities (1/2%)	-154	-	-1	-
Penalties and interest	...	...	142	231
Adjustments	16	-	1	-

1/ Insurance solicitors at 0.15%; others at 0.5%.

Source: Hawaii State Department of Taxation, General Excise and Use Tax Base and General Excise and Use Tax Collections (calendar year summary tables).

Table 195.-- REAL PROPERTY TAX VALUATIONS: ANNUALLY, 1971 TO 1981

[In thousands of dollars. As of July 1 through 1976 and January 1, 1977 and later years.]

Year	Assessment ratio 1/	Assessor's gross valuation			Valuation for tax rate purposes
		Total	Land	Improvement	
1971 ...	70	8,564,188	4,669,721	3,894,467	5,278,571
1972 ...	70	9,744,772	5,312,116	4,432,657	6,068,713
1973 ...	70	10,762,052	5,884,121	4,877,931	6,807,565
1974 ...	70	12,642,408	6,677,996	5,964,412	8,316,444
1975 ...	70	15,254,436	8,025,847	7,228,589	10,236,457
1976 ...	60	15,519,576	8,826,837	6,692,739	9,806,352
1977 ...	60	15,951,005	8,886,616	7,064,389	10,114,771
1978 ...	60	17,761,105	9,846,501	7,914,604	11,531,484
1979 ...	60	19,376,848	10,690,826	8,686,022	12,908,172
1980 ...	60	21,881,304	12,074,217	9,807,087	14,831,641
1981 ...	60	25,371,079	13,775,220	11,595,859	17,933,736

1/ Percent of fair market value.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" (annual release, through 1980); Honolulu Department of Finance, Real Property Assessment Division, "Real Property Tax Valuations and Tax Rates for the Fiscal Year 1981-82."

Table 196.-- REAL PROPERTY TAX VALUATIONS: 1971, 1980, AND 1981

[In thousands of dollars.]

Subject	1971	1980	1981
Assessor's gross valuation 1/	8,564,188	21,881,304	25,371,079
Land	4,669,121	12,074,217	13,775,220
Improvement	3,894,467	9,807,087	11,595,859
Exemptions	3,243,258	6,962,358	7,363,906
Federal	729,839	1,180,899	1,175,428
State	897,076	1,957,518	2,117,885
County	290,642	607,080	656,691
Hawaiian Homes Commission	10,570	25,501	30,245
Homes -- fee	685,897	1,614,033	1,699,450
Homes -- leasehold	206,300	525,161	535,287
Public utilities	64,467	128,887	134,604
All other 2/	358,467	923,279	1,014,316
Assessor's net taxable valuation ..	5,320,930	14,918,946	18,007,173
Half of valuation on appeal	42,358	87,306	73,437
Number of appeals	1,040	1,110	1,287
Valuation for tax rate purposes ...	5,278,571	14,831,641	17,933,736
Land	3,029,083	8,409,813	9,882,163
Improvement	2,249,487	6,421,828	8,051,573
Amount to be raised by taxation 3/	98,299	211,858	254,782

1/ As of July 1, 1971 and January 1, 1980 and 1981.
2/ Mostly churches, non-profit organizations, and hospitals.
3/ For fiscal years beginning July 1.
Source follows next table.

Table 197.-- REAL PROPERTY TAX VALUATIONS AND TAX RATES, BY COUNTIES: 1981

[Unless otherwise specified, in thousands of dollars.]

Subject	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/	18,683,260	3,317,545	2,342,729	1,027,545
Land	10,338,343	1,651,047	1,301,551	484,279
Improvement	8,344,917	1,666,498	1,041,178	543,266
Exemptions	6,191,817	402,182	600,659	169,248
Federal	1,155,662	3,325	11,572	4,869
State	1,777,482	88,806	218,424	33,173
County	568,918	45,526	27,955	14,292
Hawaiian Homes Commission	16,143	2,905	9,744	1,453
Homes -- fee	1,184,537	180,955	241,892	92,066
Homes -- leasehold	508,843	9,569	15,175	1,700
Public utilities	112,323	10,903	9,806	1,572
All other 2/	867,909	60,193	66,091	20,123
Assessor's net taxable valuation .	12,491,443	2,915,363	1,742,070	858,297
Half of valuation on appeal	40,602	21,192	2,839	8,804
Number of appeals	539	457	82	209
Valuation for tax rate purposes ..	12,450,841	2,894,171	1,739,231	849,493
Land	6,948,810	1,468,907	1,050,589	413,857
Improvement	5,502,031	1,425,264	688,642	435,636
Amount to be raised by taxation 3/	189,626	21,706	31,132	12,318
County tax rate per $1,000 value 4/	15.23	7.50	17.90	14.50

1/ As of January 1. The legal assessment ratio is 60 percent.

2/ Includes churches, non-profit organizations, hospitals, low-moderate income housing, schools, government leases, etc.

3/ For fiscal year beginning July 1.

4/ In dollars. For fiscal year beginning July 1.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" for 1971-72 and 1980-81; City and County of Honolulu Department of Finance, Real Property Assessment Division, "Real Property Tax Valuations and Tax Rates for the Fiscal Year 1981-82."

Table 198.-- MAXIMUM ASSESSED VALUE PER SQUARE FOOT FOR LAND, BY ISLANDS: JANUARY 1, 1981

[The legal assessment ratio is 60 percent of fair market value.]

Island	Location	Use	Assessed value per square foot (dollars)
Hawaii	Hilo	Commercial	8.63
Maui	Lahaina	Commercial	48.00
Lanai	Lanai City	Commercial	2.50
Molokai ...	Kaluakoi Resort	Residential	5.10
Oahu	Waikiki Beach	Hotel apt.	102.00
Kauai	Waiohai Hotel	Hotel	9.01
Niihau	Entire island	...	1/ 4.34

1/ Per acre.

Source: Hawaii State Department of Taxation, Property Technical Office, data provided May 19, 1981.

Table 199.-- ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1969 TO 1979

Year earned	Number of returns	Adjusted gross income (less deficit)	
		Total ($1,000)	Per return (dollars)
1969	290,251	2,407,048	8,293
1970	302,426	2,802,445	9,267
1971	308,814	3,010,051	9,747
1972	318,023	3,250,608	10,221
1973	345,211	3,749,212	10,861
1974	346,824	3,957,023	11,409
1975	358,510	4,269,028	11,908
1976	362,956	4,625,609	12,744
1977	380,937	5,218,740	13,700
1978 1/ ...	403,217	5,943,659	14,741
1979 2/ ...	412,999	6,481,508	15,694

1/ Revised from 1980 edition, table 174.

2/ Preliminary.

Source: U.S. Treasury Department, Internal Revenue Service, *Statistics of Income. Individual Income Tax Returns* (annual), and records.

Table 200.-- INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1970 TO 1978

[By year in which income was earned. Comparability over time is affected by changes in law, return forms, and other factors.]

Size of adjusted gross income	1970	1976	1977	1978
All returns	302,426	362,956	380,937	403,217
Under $2,000	51,572	48,812	30,534	40,863
$2,000 under $4,000	43,485	46,255	49,963	21,876
$4,000 under $6,000	36,674	41,056	38,407	58,849
$6,000 under $8,000	34,076	28,096	34,350	48,166
$8,000 under $10,000	23,894	19,022	38,712	20,842
$10,000 under $12,000	24,760	21,796	25,613	29,868
$12,000 under $14,000	23,250	23,410	21,616	23,208
$14,000 under $16,000	39,645	55,606	24,426	20,170
$16,000 under $18,000			17,721	21,372
$18,000 under $20,000			13,072	11,783
$20,000 under $25,000	13,173	34,497	28,895	29,650
$25,000 under $30,000	4,698	21,082	24,415	30,927
$30,000 under $50,000	5,411	18,318	27,308	37,397
$50,000 under $100,000	1,480	4,250	5,016	7,031
$100,000 under $200,000 ...	254	627	723	1,007
$200,000 under $500,000 ...	50	108	142	177
$500,000 under $1,000,000 .	4	18	15	23
$1,000,000 or more		3	9	8
Median income (dollars) ...	6,928	9,815	9,923	10,737

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income, Individual Income Tax Returns (annual).

Table 201.-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS, TOTAL AND JOINT: 1978

[Income earned in 1978.]

Type of return and size of adjusted gross income	Number of returns	Adjusted gross income less deficit ($1,000)	Total income tax	
			Number of returns	Amount ($1,000)
ALL RETURNS				
Total	403,217	5,943,659	310,680	813,069
Under $5,000	103,777	262,666	25,547	4,564
$5,000 under $10,000 ...	86,819	630,756	76,222	39,264
$10,000 under $15,000 ..	62,559	764,551	59,992	73,528
$15,000 under $20,000 ..	43,842	752,601	43,304	87,938
$20,000 under $25,000 ..	29,650	663,091	29,544	86,038
$25,000 under $50,000 ..	68,324	2,213,404	67,846	344,434
$50,000 or more	8,246	656,590	8,225	177,305
JOINT RETURNS OF HUSBANDS AND WIVES				
Total	192,308	4,315,206	163,614	618,606
Under $5,000	16,071	45,510	1/ 76	1/ 208
$5,000 under $10,000 ...	20,885	163,767	11,603	3,002
$10,000 under $15,000 ..	30,472	382,910	27,959	25,936
$15,000 under $20,000 ..	28,876	500,701	28,369	50,642
$20,000 under $25,000 ..	24,716	555,241	24,635	66,435
$25,000 under $50,000 ..	63,490	2,059,481	63,195	312,915
$50,000 or more	7,798	607,598	7,777	159,469

1/ Estimate should be used with caution because of small number of sample returns on which it is based.

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income--1978, Individual Income Tax Returns.

Table 202.-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN: 1968 TO 1978

[In dollars.]

Year income was received	Taxable and nontaxable returns			Taxable returns only		
	Single and joint	Single	Joint	Single and joint	Single	Joint
1968	6,180	2,595	10,618	7,474	3,815	11,235
1969	6,534	2,623	11,581	7,915	3,839	12,156
1970	7,018	2,969	12,358	8,348	3,981	13,072
1971	7,366	2,962	12,685	8,936	4,263	13,497
1972	7,462	3,284	13,515	9,218	4,553	14,358
1973	7,680	3,262	14,114	9,666	4,650	15,189
1974	7,844	3,774	15,319	9,945	5,193	16,667
1975	8,140	3,890	16,350	10,448	5,406	17,706
1976	(NA)	4,318	(NA)	10,608	5,790	18,705
1977	8,725	4,235	17,716	11,057	5,838	19,718
1978	9,338	4,539	20,066	12,279	6,273	22,335

NA Not available.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns, Individuals (annual), and data provided February 19, 1981.

Table 203.-- STATE INCOME TAX RETURNS ON INCOME RECEIVED DURING 1978, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ ($1,000)	Net taxable income ($1,000)	Tax liability ($1,000)
All returns	409,218	5,455,155	3,718,082	266,497
Taxable returns 2/	326,594	5,262,288	3,652,721	262,528
$800, under $5,000	77,423	215,657	118,606	4,642
$5,000, under $10,000	64,688	481,693	322,575	18,223
$10,000, under $15,000	46,486	568,353	387,112	24,805
$15,000, under $20,000	37,708	656,996	444,405	29,772
$20,000, under $25,000	31,438	700,857	479,271	33,671
$25,000, under $30,000	23,770	656,503	455,834	33,022
$30,000, under $50,000	37,365	1,378,138	985,566	76,676
$50,000, under $75,000	5,683	339,796	250,444	21,548
$75,000, under $100,000 ...	1,029	90,241	69,431	6,367
$100,000, under $150,000 ..	677	87,042	74,061	7,172
$150,000 and over	327	87,012	65,416	6,630
Nontaxable returns 2/	61,100	66,869	...	...
Loss	1,057	(4,673)	...	...
Under $800	41,001	9,548	...	...
$800, under $5,000	15,601	31,780	...	...
$5,000 and over	3,441	25,541	...	...
Nonresident returns	21,524	125,998	65,361	3,969

1/ Totals and subtotals exclude losses.

2/ The median adjusted gross income was $12,279 for taxable returns and $576 for nontaxable returns.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns 1978, Individuals, forthcoming.

Table 204.-- FEDERAL ESTATE TAX RETURNS FILED DURING 1977, BY SIZE OF GROSS ESTATE

Size of gross estate 1/	Number of re- turns 2/	Gross estate 3/ ($1,000)	Taxable estate		Estate tax after credits	
			Number of returns	Amount ($1,000)	Number of returns	Amount ($1,000)
Total	627	143,549	430	53,688	406	12,133
Under $200,000	419	49,975	241	7,932	217	1,104
$200,000 under $300,000	120	29,096	107	10,348	107	1,843
$300,000 under $500,000	49	18,656	44	9,518	44	1,867
$500,000 under $1,000,000 ..	24	17,954	23	11,328	23	2,967
$1,000,000 or more	15	27,867	15	14,562	15	4,352

1/ For persons who died in 1976, estate tax returns were required if the gross value of the estate at the time of death exceeded $60,000. For persons who died in 1977, the cut-off value was $120,000. Nationally, 5.5 percent of the returns filed in 1977 referred to persons who died in 1975 or earlier years, 81.1 percent to 1976 deaths, and 13.4 percent to 1977 decedents.

2/ Total resident deaths in 1976 numbered 4,717.

3/ Chiefly in real estate (509 returns; $59,179,000), corporate stock (352 returns; $22,680,000), and lifetime transfers (168 returns; $25,435,000).

Source: U.S Department of the Treasury, Internal Revenue Service, Statistics of Income - 1976, Estate Tax Returns (1979), tables 18 and 19.

Table 205.-- FEDERAL AID: 1977 TO 1980

[In thousands of dollars.]

Years ended September 30	Amount
1977	400,144
1978	413,391
1979	407,881
1980	463,258

Source: U.S. Department of the Treasury, Federal Aid to States (annual).

Table 206.-- FEDERAL OUTLAYS IN HAWAII: 1968 TO 1980

[In thousands of dollars. For fiscal year ended June 30 through 1976 and September 30 thereafter.]

Fiscal year	All agencies	Department of Defense	Nondefense agencies
1968	848,383	498,196	350,187
1969	987,814	564,957	422,857
1970 (revised)	963,668	524,474	439,194
1971	1,075,111	622,528	452,583
1972	1,173,340	669,999	503,341
1973	1,435,341	806,565	628,776
1974	1,643,890	943,622	700,268
1975	2,060,344	1,106,976	953,368
1976	2,162,221	1,221,098	941,123
1977	2,065,800	995,085	1,070,715
1978	2,507,095	1,239,947	1,267,148
1979	2,659,230	1,371,860	1,287,370
1980	3,151,277	1,647,987	1,503,290

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1980), Federal Outlays in Hawaii (annual report, 1968-1976) and Geographic Distribution of Federal Funds in Hawaii (annual report, 1977-1980).

Table 207.-- FEDERAL OUTLAYS IN HAWAII, BY AGENCIES AND FUNCTIONS: FISCAL YEAR ENDED SEPTEMBER 30, 1980

[In thousands of dollars.]

Agency or function 1/	Outlay
Total outlays	3,151,277
Agency funds:	
Dept. of Agriculture	104,683
Dept. of Defense	1,647,987
Dept. of Education	52,081
Dept. of Health and Human Services	617,294
Dept. of Housing and Urban Development	26,439
Dept. of Labor	72,366
Dept. of Transportation	148,385
Dept. of the Treasury	49,908
Environmental Protection Agency	34,892
Federal Home Loan Bank Board	27,100
Office of Personnel Management	163,650
Postal Service	52,219
Veterans Administration	64,500
Functions:	
Dept. of Defense -- Military	1,647,987
Postal service	52,219
Ground transportation	67,777
Training and employment	57,179
Health care services	166,284
General retirement and disability insurance	363,742
Federal employee retirement and disability	145,143
Public assistance and other income supplements	165,958

1/ Shown separately for agencies over $25,000,000 and functions over $50,000,000.

Source: Community Services Administration, Geographic Distribution of Federal Funds in Hawaii, Fiscal Year 1980.

Table 208.-- FEDERAL OUTLAYS IN HAWAII, BY COUNTIES: FISCAL YEAR ENDED SEPTEMBER 30, 1980

[In thousands of dollars.]

County	All agencies	Department of Defense	Nondefense agencies
State total	3,151,277	1,647,987	1,503,290
City and County of Honolulu	2,790,032	1,604,757	1,185,275
Hawaii County	160,771	11,312	149,459
Kalawao County	590	-	590
Kauai County	86,646	16,832	69,814
Maui County	113,238	15,086	98,152

Source: Community Services Administration, Geographic Distribution of Federal Funds in Hawaii, Fiscal Year 1980.

Table 209.-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1970 TO 1980

[In millions of dollars. As of December 31.]

Year	Total bonded debt 1/	State debt 2/	County debt 2/			
			Honolulu	Maui	Hawaii	Kauai
1970	742.0	536.1	172.5	10.4	17.9	5.1
1971	925.5	679.3	198.9	25.4	17.1	4.9
1972	1,080.4	804.1	215.8	24.6	26.3	9.6
1973	1,219.4	944.1	212.1	23.9	25.0	14.3
1974	1,274.4	1,005.2	198.5	23.2	33.6	13.9
1975	1,435.9	1,185.6	182.8	22.4	31.8	13.3
1976	1,667.2	1,385.9	211.0	21.0	36.9	12.4
1977	1,775.7	1,483.1	226.9	19.6	34.6	11.5
1978	1,916.8	1,607.1	238.5	18.2	37.3	15.7
1979	1,971.9	1,677.6	224.3	16.8	38.3	14.9
1980	2,054.3	1,764.9	207.5	22.4	45.6	13.8

1/ Outstanding state and county bonds, both general obligation and revenue bonds.

2/ Bonds are classified under the governmental unit charged with the payment of debt service costs.

Source: Tax Foundation of Hawaii, Government in Hawaii (annual).

Table 210.-- STATE GENERAL OBLIGATION BOND DEBT: 1970 TO 1980

[In dollars. As of June 30.]

Year	G. O. bond debt	Cash reserve for serial bonds	Net debt
1970	342,329,000.00	2,916,418.02	339,412,581.98
1971	434,895,000.00	2,595,593.63	432,299,406.37
1972	522,918,000.00	2,109,114.74	520,808,885.26
1973	689,764,000.00	2,262,632.80	687,501,367.20
1974	770,325,000.00	2,821,305.76	767,503,694.24
1975	810,021,000.00	2,396,217.52	807,624,782.48
1976	1,039,744,000.00	1,422,038.00	1,038,321,962.00
1977	1,165,459,000.00	852,531.27	1,164,606,468.73
1978	1,336,906,000.00	496,979.40	1,336,409,020.60
1979	1,343,780,000.00	139,000.00	1,343,641,000.00
1980	1,418,764,000.00	139,000.00	1,418,625,000.00

Source: Hawaii State Department of Accounting and General Services, records.

Table 211.-- STATE DEMAND DEPOSITS AND INVESTMENTS BY FUND: 1978 TO 1980

[In thousands of dollars. For years ended June 30.]

Type of account and fund	1978	1979	1980
Total accounts	417,413.0	418,581.9	577,073.6
Demand deposits	4,813.0	8,027.1	7,867.3
Investments	412,600.0	410,554.8	569,206.3
General Fund 1/	68,638.9	137,039.3	259,010.1
Special Funds	151,935.5	165,338.5	193,959.9
Trust Funds	36,252.0	32,796.2	66,040.6
Bond Funds	155,773.7	75,380.8	50,195.8

1/ Total General Fund earnings were $9,571,636 for 1978, $18,370,388 for 1979, and $37,409,013 for 1980.

Source: State Department of Budget and Finance, Annual Report of Deposits and Investments, State of Hawaii (annual).

Table 212.-- FEDERAL, STATE, AND COUNTY EMPLOYMENT: 1970 TO 1981

[Annual averages unless otherwise specified.]

Year	Total government	Federal			State	Counties
		Total	Defense 1/	Non-defense		
1970	73,640	33,380	22,080	11,300	30,600	9,660
1971	78,220	32,920	21,520	11,400	34,920	10,380
1972	79,400	32,700	21,200	11,500	35,300	11,450
1973	78,050	31,650	20,600	11,050	35,250	11,150
1974	78,900	31,000	20,200	10,800	35,950	11,950
1975	82,000	30,550	19,700	10,850	38,700	12,750
1976	84,800	29,850	19,200	10,600	41,350	13,600
1977	85,700	29,300	19,000	10,250	42,650	13,800
1978	87,050	29,350	19,100	10,250	43,350	14,350
1979	86,500	29,700	18,850	10,800	43,300	13,500
1980	89,050	30,000	18,700	11,250	45,150	13,900
1981: April .	90,550	30,100	19,200	10,950	47,900	12,600

1/ Air Force, Army, and Navy.

Source: Hawaii State Department of Labor and Industrial Relations, State of Hawaii Labor Force Statistics for 1970 and 1971, Labor Force Data Book (March 1978), as revised May 1981, and records.

Table 213.-- STATE SALARY SCHEDULES FOR SELECTED SR LEVELS: 1979 TO 1981

[In dollars per month. As of July 1. Data refer to lowest and highest rate among six bargaining units classified under the salary range schedules. The bargaining units are: 3, white-collar; 4, white-collar supervisors; 9, registered nurses; 10, hospital and institutional; 11, State Government firefighters; and 13, professional and scientific.]

Salary range	Lowest 1/			Highest 2/		
	1979	1980	1981 3/	1979	1980	1981 3/
SR-4	590	651	705	948	1,048	1,063
SR-11	793	869	941	1,248	1,379	1,391
SR-21	1,230	1,336	1,441	1,874	2,071	2,171
SR-31/EM-8 ..	1,941	2,009	2,256	2,967	3,213	3,456

1/ Lowest level is the B step.

2/ Highest level is the last longevity step (L-4).

3/ Excludes unit 11, firefighters whose contract had not been settled as of July 1, 1981.

Source: Hawaii State Department of Personnel Services, records.

Table 214.-- STATE CIVIL SERVICE: 1978 TO 1980

[Years ended June 30. The State civil service system does not cover elected or appointed officials, public school teachers, university faculty, and other exempt positions.]

Subject	1978	1979	1980
Civil service employees	16,577	17,111	17,328
Department of Education	3,882	4,019	3,985
Department of Health	4,088	4,372	4,393
Department of Social Services and Housing	1,688	1,776	1,874
Department of Transportation	1,877	1,888	1,862
University of Hawaii	1,484	1,492	1,514
All others	3,558	3,564	3,700
Separations	1,613	1,639	2,155
Promotions	813	781	789
Transfers, demotions, and returns after promotions	633	664	843
Classification actions processed	3,219	3,323	3,999
Applications received	26,419	21,215	19,761
Applicants screened	15,834	20,598	18,650
Applicants placed on eligible list	13,184	10,396	7,704
Vacancies filled through certification of eligibles or non-competitive actions	2,756	2,788	3,648

Source: Hawaii State Department of Personnel Services, Annual Report-1980, pp. 2, 4, and 5.

Section 9

SOCIAL INSURANCE AND WELFARE SERVICES

This section presents data related to governmental expenditures on social welfare; programs for old-age, survivors, disability and health insurance; public employees retirement; unemployment insurance; aid to the needy; and maternal, child, and other welfare services. Also included here are selected statistics on private charity and welfare programs.

Total public welfare costs reached $255 million in fiscal 1980, compared with $47 million a decade earlier. About 57 percent of the 1980 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1980 was 71,693, or 7.5 percent of the resident population of the State at the beginning of the year. Two-thirds of all public assistance payments and one-half of all recipient cases were accounted for by aid to families with dependent children. About 6.1 percent of all welfare cases receiving financial assistance early in 1981 were recent migrants to Hawaii. The average monthly payment per case for public assistance was $338, almost twice as much as in 1970. Participation in the food stamp program included 38,500 households and 99,600 persons. Among workers receiving unemployment compensation in 1980, weekly benefits averaged $103. Almost 110,000 Hawaii residents were receiving Social Security benefits as of the end of 1979, and about 70,000 were enrolled for Medicare. There were also 12,052 State and County government pensioners in 1980, with annual benefits in excess of $78 million. Child adoptions in 1980 numbered 670. The Aloha United Way reported agency allocations of $7.3 million on Oahu and $1.3 million on the Neighbor Islands in 1980. A recent comparative study of the "quality of life" in 100 American cities ranked Honolulu seventh.

Major data sources include reports and records of the U.S. Department of Health and Human Services, the Hawaii State Department of Social Services and Housing, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the Aloha United Way. Historical Statistics of Hawaii, Section 8, contains data for earlier years. Section 11 of the Statistical Abstract of the United States: 1980 presents comparable Mainland data.

Table 215.-- SOCIAL WELFARE COSTS: 1970 TO 1980

[In thousands of dollars. For years ended June 30.]

Year ended June 30	Total cost	By source of funds		By expenditure category			
		Federal	State	Administration	Medical payments	Money payments	Social service costs
1970	46,566	20,396	26,170	3,730	16,421	26,415	-
1971	67,645	27,769	39,876	5,483	23,926	38,236	-
1972	94,212	38,143	56,069	6,324	34,278	53,610	-
1973	107,237	43,107	64,130	6,757	35,542	64,180	758
1974	111,627	45,782	65,845	7,933	39,096	63,131	1,467
1975	121,643	47,163	74,479	8,262	41,158	70,622	1,601
1976	168,440	67,629	100,811	10,701	60,685	87,956	9,098
1977	194,203	79,151	115,052	13,505	69,677	100,322	10,699
1978	230,111	93,490	136,621	14,206	93,399	111,275	11,231
1979	244,898	101,411	143,487	15,250	104,694	113,854	11,100
1980	255,280	109,734	145,547	18,999	112,024	112,793	11,464

Source: Hawaii State Department of Social Services and Housing, records.

Table 216.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1970 TO 1980, MONTHLY AVERAGES

Year ended June 30	Major programs 1/		Service cases 2/	Medical payments 3/		Average money payments 4/ (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1970	12,940	34,320	900	2,942	3,370	170.17	64.14
1971	16,467	44,897	743	4,073	4,496	198.20	72.69
1972	20,627	57,462	1,767	4,068	5,672	220.79	79.26
1973	24,400	66,535	7,833	3,040	4,612	227.11	82.30
1974	21,713	63,807	7,242	5,653	6,912	237.54	85.10
1975	20,850	59,911	7,777	8,212	8,963	275.20	95.77
1976	24,438	67,594	9,067	10,825	11,675	295.17	106.72
1977	36,534	81,938	12,610	12,303	13,329	307.76	114.52
1978	28,575	75,485	26,400	14,381	15,572	321.63	121.75
1979	27,399	72,928	25,358	13,796	14,890	334.90	150.99
1980	20,440	71,693	25,597	12,932	13,598	337.59	128.17

1/ Old age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance. Old age assistance, aid to the blind and aid to disabled assisted through the Federal Social Security Administration with State supplements excluded beginning January 1, 1974.

2/ Data for 1976 and 1977 are quarterly averages.

3/ Ineligible for money assistance, receiving medical payment only.

4/ Gross obligation basis.

Source: Hawaii State Department of Social Services and Housing, records.

Table 217.-- PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1979 AND 1980

[Years ended June 30.]

Program	Total payments ($1,000)		Recipient cases (monthly average)		Average monthly payment (dollars)	
	1980	1979	1980	1979	1980	1979
All programs	128,749	128,150	35,753	36,623	300	291
Old age assistance 1/ .	8,090	8,382	4,985	5,601	135	124
Aid to the blind 1/ ...	338	332	148	153	190	180
Aid to disabled 1/	10,683	10,502	4,891	5,179	182	168
Aid to families with dependent children 2/	89,287	87,627	19,207	18,783	387	388
Child welfare foster care	1,134	1,041	599	580	158	150
General assistance	19,217	20,266	5,923	6,327	270	266

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent and AFDC foster care.

Source: Hawaii State Department of Social Services and Housing, records.

Table 218.-- FOOD STAMPS: 1979 AND 1980

[Years ended June 30.]

Subject	1979	1980
Participation in food stamp program (monthly averages)		
Households, total participating	33,851	38,462
Public assistance recipients	22,768	22,799
Other participants 1/	11,083	15,663
Persons, total participating	90,443	99,586
Public assistance recipients	63,144	61,413
Other participants 1/	27,299	38,173
Food stamp purchase amount and bonus ($1,000)		
Total value of food stamps to recipients	52,807	57,378
Purchase (amount paid for by recipients) 2/	15,567	0
Bonus or free coupons given to recipients	37,240	57,378

1/ Not receiving public assistance (food stamp only).

2/ Purchase requirement discontinued effective January 1979.

Source: Hawaii State Department of Social Services and Housing, records.

Table 219.-- MIGRATION STATUS OF PUBLIC WELFARE RECIPIENTS: JANUARY 1981

[This table reflects the January 1981 status of in-migrants receiving financial assistance, medicaid and food stamps. Within the financial assistance category are 2,026 children living with non-needy caretakers and within the medicaid category are 1,583 converted aged, blind and disabled cases.]

Place of birth or last previous residence	Number of welfare cases 1/				Amount of monthly financial assistance ($1,000)	
	Receiving financial assistance		Medicaid	Food stamps only	All recipients	In Hawaii under 1 year
	Total	In Hawaii under 1 year				
Total	26,697	-	15,522	14,798	8,825	544
Born in Hawaii	15,457	-	7,003	5,881	5,232	-
Born elsewhere	9,881	1,619	7,006	8,443	3,192	544
Mainland	5,572	731	1,546	5,371	1,793	234
Samoa	1,280	83	383	356	494	27
Philippines	685	15	2,571	1,533	152	3
Orient 2/	406	17	2,123	793	102	6
Southeast Asia 3/.	1,518	732	121	35	512	259
Other 4/	420	41	262	355	139	13
Unknown	1,359	-	1,512	474	401	-

1/ The number of individuals (rather than cases) was 70,529 receiving financial assistance, 20,201 receiving medical assistance only, and 36,970 enrolled in the food stamp only program. Data include Aid to Families with Dependent Children, Unemployed Father, General Assistance, and Aged, Blind, Disabled Supplement, but exclude foster care.

2/ China, Japan, and Korea.

3/ Vietnam, Cambodia, and Laos.

4/ South Pacific Islands, Canada, Europe, etc.

Source: Hawaii State Department of Social Services and Housing, records.

Table 220.-- MEDICARE ENROLLMENT AND REIMBURSEMENT: 1979

Coverage	Enrollment, July 1, 1979		Reimbursement, 1979 ($1,000)	
	Age 65 and over	Disabled and renal disease	Age 65 and over	Disabled and renal disease
Hospital and/or medical	70,424	7,181	64,858	12,357
Hospital only	68,659	7,181	42,449	6,279
Medical only	68,006	6,562	22,409	6,078

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Office of Research Demonstration and Statistics, records.

Table 221.-- SOCIAL SECURITY RECIPIENTS AND BENEFITS: 1970 TO 1979

Year	Number of recipients at end of year	Monthly amount payable at end of year		Total amount paid during year 1/ ($1,000)
		Total ($1,000)	Per recipient (dollars)	
1970	66,488	6,437	96.81	77,593
1971	70,912	7,666	108.11	92,440
1972	76,413	10,141	132.71	107,125
1973	82,224	11,202	136.24	134,198
1974	87,141	13,433	154.15	155,178
1975	91,731	15,629	170.38	181,775
1976	96,230	17,894	185.95	210,423
1977	101,911	20,669	202.81	241,814
1978	105,988	23,464	221.38	273,564
1979	109,952	27,462	249.76	310,320

1/ Includes also retroactive benefits and lump-sum death payments.

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Policy, Office of Research and Statistics.

Table 222.-- CHARACTERISTICS OF OLD-AGE, SURVIVORS AND DISABILITY INSURANCE BENEFICIARIES: DECEMBER 31, 1979

[Monthly cash benefits in current-payment status.]

Subject	Number of benefits		Amount of benefits ($1,000)	
	State total	Oahu	State total	Oahu
Total	109,952	78,265	27,642	19,595
Benefit category:				
Retired worker	61,012	43,791	18,080	12,913
Disabled worker	6,911	5,046	2,245	1,640
Wife or husband	10,776	7,198	1,405	937
Children	20,044	14,164	2,980	2,131
Widow, widower, or parent ..	11,209	8,066	2,752	1,974
Age of beneficiary:				
Under 65 years	43,580	30,888	8,734	6,217
65 to 71 years	32,157	22,951	18,728	13,378
72 years and over	34,215	24,426		
Sex of adult beneficiaries:				
Men	42,981	29,732	14,025	9,687
Women	46,927	34,369	10,457	7,777

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Policy, Office of Research and Statistics, data supplied April 22, 1981.

Table 223.-- UNEMPLOYMENT INSURANCE: 1970 TO 1980

Calendar year	Covered employment		Insured unemployment		Average weekly total wages (dollars)
	Total	Percent of total jobcount	Total	Percent of total unemployment	
1970 ...	302,388	91	7,369	46	131.87
1971 ...	309,901	91	12,315	53	135.38
1972 ...	321,751	92	14,485	54	141.92
1973 ...	335,615	92	12,107	46	151.17
1974 ...	342,615	91	13,900	47	162.25
1975 ...	350,481	92	18,779	59	174.42
1976 ...	357,770	92	21,480	55	183.87
1977 ...	367,518	92	16,438	55	192.29
1978 ...	384,214	92	11,287	36	207.98
1979 ...	400,311	92	10,381	42	225.84
1980 ...	(NA)	(NA)	11,349	57	(NA)

Calendar year	Gross benefits 1/ ($1,000)	Weekly benefits 1/		Average benefit duration 1/ (weeks)	Exhaustion rate 1/ (percent)
		Maximum (dollars)	Average (dollars)		
1970 ...	20,655	79	58.15	15.0	21.3
1971 ...	35,390	86	63.38	18.3	33.8
1972 ...	37,865	90	65.57	19.9	41.7
1973 ...	37,014	93	67.57	16.0	30.2
1974 ...	45,208	98	71.86	16.2	35.3
1975 ...	58,942	104	76.34	16.4	34.1
1976 ...	71,574	112	83.84	18.9	48.4
1977 ...	55,823	120	88.68	16.4	36.0
1978 ...	45,653	126	91.25	16.2	34.1
1979 ...	39,864	134	93.07	13.5	23.1
1980 ...	49,222	144	102.91	13.7	22.0

NA Not available.

1/ Regular benefits only. Excludes extended benefits.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (May 1981), pp. 19, 21, 27, 39, 44, and 45.

Table 224.-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1970 TO 1980

Year	Membership, March 31	Pensioners, March 31	Assets, 1/ June 30 (dollars)	Total benefits paid 2/ (dollars)	Average monthly pension 2/ (dollars)	Administration expenses 2/ (dollars)
1970 ..	38,912	5,641	388,561,206	22,822,059	216	337,002
1971 ..	42,262	6,069	435,463,758	25,665,295	231	418,754
1972 ..	43,736	6,667	489,436,678	31,359,208	247	478,522
1973 ..	44,471	7,343	545,465,277	37,601,889	262	425,864
1974 ..	43,371	7,971	611,675,571	41,130,325	271	487,504
1975 ..	44,363	8,600	683,305,413	46,782,477	297	563,513
1976 ..	45,256	9,263	773,878,470	53,625,776	313	631,714
1977 ..	46,371	10,099	886,596,717	59,158,256	330	725,621
1978 ..	47,273	10,772	1,007,744,828	61,211,832	347	775,393
1979 ..	47,476	11,382	1,144,077,004	70,062,195	352	823,891
1980 ..	48,868	12,052	1,301,853,352	78,415,562	390	932,899

1/ Book value.

2/ Year ended June 30. Data on total benefits paid exclude pensioners' bonus and social security.

Source: Employees' Retirement System of the State of Hawaii, 55th Annual Report, June 30, 1980, pp. 19 and 34, and records.

Table 225.-- CHILD ADOPTIONS: 1975 TO 1980

Type of adoption	1975	1976	1977	1978	1979	1980
Total	742	682	606	537	786	670
By relatives	598	540	470	371	583	471
By nonrelatives	144	142	136	166	203	199
Placed by social agencies	76	69	70	94	129	119

Source: Hawaii State Department of Social Services and Housing, tabulations from SRS-NCSS-281 Adoption Card.

Table 226.-- FOUNDATIONS: 1972-73 and 1977-78

[Figures are for latest year reported by foundations at time of survey. A foundation may be defined as a nongovernmental, nonprofit organization, with funds and programs managed by its own trustees or directors, and established to maintain or aid social, educational, charitable, religious, or other activities serving the common welfare, primarily by making grants. Excludes organizations which make general appeals to the public for funds, act as trade associations for industrial or other special groups, are restricted by charter solely to aiding one or several named institutions, or which are captive trusts, within colleges, churches, or other organizations, or are small -- defined as having neither assets of $1,000,000 nor making grants of at least $100,000 in the latest year of record.]

Year	Number	Finances (millions of dollars)		
		Assets	Expenditures	Grants
1972 or 1973	14	87	4	3
1977 or 1978	14	108	5	5

Source: Statistical Abstract of the United States for 1976 (p. 323) and 1980 (p. 364).

Table 227.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLAND: 1970 TO 1980

[In dollars.]

Year	Four island total	Oahu 1/	Hawaii 2/	Kauai 3/	Maui 4/
TOTAL REVENUES					
1970	5,040,081	4,377,883	366,260	123,584	172,354
1971	5,440,190	4,714,072	382,072	181,904	162,142
1972	5,524,611	4,749,399	405,716	181,418	188,078
1973	5,661,923	4,829,529	435,306	178,311	218,777
1974	6,134,664	5,257,649	445,263	180,480	251,272
1975	6,681,451	5,666,282	465,817	193,268	356,084
1976	7,321,190	6,204,303	507,442	207,096	402,349
1977	7,847,055	6,617,452	545,430	224,099	460,074
1978	8,418,900	7,149,078	564,578	228,440	476,804
1979	8,993,375	7,624,588	590,582	247,666	530,539
1980	9,833,286	8,190,293	636,072	261,899	745,022
CONTRIBUTIONS 5/					
1970	5,163,319	4,507,229	362,623	123,517	169,950
1971	5,583,189	4,862,764	376,657	181,626	162,142
1972	5,775,895	5,007,611	400,690	179,958	187,636
1973	5,891,918	5,076,425	420,818	176,265	218,410
1974	6,394,049	5,528,287	438,599	178,229	248,934
1975	6,519,877	5,518,832	457,816	190,863	352,366
1976	7,151,587	6,052,054	498,166	204,632	396,735
1977	7,699,256	6,487,420	535,796	221,778	454,262
1978	8,142,554	6,893,082	553,107	225,891	470,474
1979	8,852,477	7,510,568	577,408	244,867	519,634
1980	9,265,006	7,890,704	613,528	257,375	503,399

Continued on next page.

Table 227.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLAND: 1970 TO 1980 -- Con.

[In dollars.]

Year	Four island total	Oahu 1/	Hawaii 2/	Kauai 3/	Maui 4/
TOTAL OUTLAYS					
1970	4,976,724	4,277,561	349,161	129,464	220,538
1971	5,372,530	4,615,511	372,969	164,110	219,940
1972	5,470,845	4,682,606	403,301	191,085	193,853
1973	5,608,635	4,805,589	406,919	190,178	205,949
1974	6,032,973	5,187,501	419,258	183,041	243,173
1975	6,791,825	5,827,974	452,074	192,393	319,384
1976	7,274,522	6,184,064	478,389	201,215	210,854
1977	7,704,657	6,514,799	522,213	219,243	448,402
1978	8,218,882	6,953,222	557,735	225,411	482,514
1979	8,920,736	7,563,216	600,905	240,823	515,792
1980	9,399,208	7,940,862	614,606	256,536	587,204
AGENCY ALLOCATIONS					
1970	4,585,471	3,963,195	312,622	112,987	196,667
1971	4,938,840	4,265,374	331,480	144,058	197,928
1972	5,013,397	4,308,488	361,425	171,964	171,520
1973	5,128,529	4,412,466	362,406	171,330	182,327
1974	5,524,861	4,774,390	370,255	167,875	212,341
1975	5,992,669	5,138,244	396,814	176,150	281,461
1976	6,537,840	5,576,158	417,430	184,140	360,112
1977	7,007,059	5,950,252	459,619	201,082	396,106
1978	7,520,694	6,405,377	485,869	206,748	422,700
1979	8,199,320	6,972,047	523,759	221,000	482,514
1980	8,554,649	7,287,382	528,000	233,700	505,567

1/ Aloha United Fund, 1970-1973; Aloha United Way, 1974 to present.

2/ Hawaii Island United Fund, Inc., 1970-1973; Hawaii Island United Way, Inc., 1974 to present.

3/ Kauai United Fund, Inc., 1970-1974; United Way of Kauai, 1975 to present.

4/ Maui United Fund, 1970-1973; Maui United Way, 1974 to present.

5/ Before adjustment for uncollectibles for Oahu, Kauai and Maui.

Source: Aloha United Way, Annual Report, 1970-1980; Hawaii United Way, Inc., Financial Statements (annual); United Way of Kauai and Maui United Way, records.

Table 228.-- QUALITY OF LIFE INDEX RANKINGS, FOR THE STATE AND HONOLULU: 1960 TO 1976

Area ranked and authority	Year of data	Areas ranked	Local rank
State:			
Midwest Research Institute 1/	1960	51	14
Midwest Research Institute 2/	1970	51	15
Lifestyle Magazine 3/	(NS)	51	6
Honolulu:			
Griffin and Dee 4/	1960	48	4
Midwest Research Institute 5/	1970	65	31
University of Nebraska 6/	1970-76	100	7

NS Not specified.

1/ John O. Wilson, The Quality of Life in America (Midwest Research Institute Report, Winter 1967), pp. 10-11; cited in Ben-Chich Liu, The Quality of Life in the United States 1970: Index, Rating, and Statistics (Midwest Research Institute, May 1973), p. 23.

2/ Liu, op. cit., p. 23.

3/ Lifestyle Publishing, Inc., Lifestyle Magazine, November 1972, p. 18; cited in Liu, op. cit., p. 23.

4/ John M. Griffin and Norbert Dee, "Measuring the Intangible: How to Quantify Quality of Life," Industrial Management, September-October 1975, pp. 9-15, espec. p. 10. Based largely on data for cities (rather than SMSAs).

5/ Ben-Chich Liu, Quality of Life Indicators in the U.S. Metropolitan Areas, 1970 (Summary) (Midwest Research Institute, May 1975), p. 53. Based on data for SMSAs.

6/ Ralph H. Todd, "A City Index: Measurement of a City's Attractiveness," Review of Applied Urban Research (University of Nebraska at Omaha, Center for Applied Urban Research), Vol. 5, No. 7, July 1977, pp. 1-19. Based on data for cities rather than SMSAs.

Source: See above footnotes.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard strength, civilian employment in national defense, veterans, military housing, and expenditures by the armed forces.

There were approximately 61,000 officers and enlisted men (including 12,200 aboard ships homeported in Hawaii) and 64,000 military dependents in the Islands as of April 1, 1980. This number has been relatively stable in recent years, but at the height of World War II more than 400,000 uniformed personnel were present. The Navy alone accounts for about two-fifths of the current total. More than 11,800 Hawaii residents were in the armed forces worldwide in 1980. The importance of national defense in Hawaii can be further measured by total expenditures ($1.3 billion), military prime contract awards ($315 million), civilian employment (19,000), veterans in civil life (93,000), military personnel receiving retired or retainer pay (9,000 men, receiving $8.9 million monthly), federally-connected pupils in public schools (35,400), military housing (19,000 units), and land controlled by the armed forces (223,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Planning and Economic Development has, since 1959, issued periodic reports on Military Personnel and Dependents in Hawaii. Other published sources include reports of the U.S. Bureau of the Census, the Administrator of Veterans Affairs, the U.S. Department of Defense, the Hawaii State Department of Labor and Industrial Relations, Department of Defense, and Department of Education, the Hawaii State Census Statistical Areas Committee, and the Honolulu Department of Housing and Community Development. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. In mid-1978, for example, the number of armed forces in Hawaii was reported as 55,692 by DOD, 58,267 by the Bureau of the Census, 47,995 by the Bureau of Economic Analysis (which excludes ships crews) and 58,106 by the local commanding officers reporting to DPED. Historical Statistics of Hawaii, Section 26, includes series dating back to 1795. Section 12 of the Statistical Abstract of the United States: 1980 presents data on national defense and veterans affairs for other States and the entire nation.

Table 229.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE ARMED FORCES WORLDWIDE: 1978 TO 1980

[Based on home of record.]

Date	Number
1978: June 30	10,715
1979: March 31	11,069
1980: June 30	11,851

Source: U.S. Department of Defense, Washington, Headquarters Services, Information Operations and Reports, records.

Table 230.-- ARMED FORCES AND DEPENDENTS: 1978 TO 1980

[Includes Navy personnel in Hawaiian waters, regardless of home port, and excludes all Coast Guard personnel; for these reasons, data differ somewhat from those in the following table.]

Year	Active-duty military personnel in Hawaii, June 30			Dependents located in Hawaii, March 31 1/
	Total	Shore-based 2/	Afloat 3/	
1978	55,692	43,851	11,841	55,327
1979	54,216	44,758	9,458	57,030
1980	50,673	42,356	8,317	53,729

1/ Including dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

2/ Including personnel afloat and mobile but temporarily shorebased.

3/ Navy personnel afloat, identified with nearest port.

Source: Department of Defense, Washington, Headquarters Services, Information Operations and Reports, records.

Table 231.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1980

[Includes Navy and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Bureau of the Census and Department of Defense, reported elsewhere in this volume.]

Date	Personnel and dependents	Military personnel			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1970: April 1 ..	117,943	56,085	41,362	14,723	61,858	20,558
July 1 ...	111,549	53,768	39,822	13,946	57,781	20,568
1971: July 1 ...	112,943	50,762	35,824	14,938	62,181	23,184
1972: July 1 ...	118,760	52,538	37,124	15,414	66,222	23,688
1973: July 1 ...	128,082	57,783	43,064	14,719	70,299	25,264
1974: July 1 ...	126,882	58,558	45,369	13,189	68,324	29,082
1975: July 1 ...	121,911	58,205	45,589	12,616	63,706	26,122
1976: July 1 ...	126,694	59,737	46,453	13,284	66,957	26,395
1977: July 1 ...	123,471	58,466	45,811	12,655	65,005	25,927
1978: July 1 ...	119,200	58,106	46,001	12,105	61,094	25,400
1979: July 1 ...	122,386	57,868	44,915	12,953	64,518	27,835
1980: April 1 ..	125,042	61,019	48,813	12,206	64,023	26,129

Source follows next table.

Table 232.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: APRIL 1, 1980

[See headnote to preceding table.]

Island and service	Military personnel				Dependents in Hawaii	Military families
	Ashore and afloat	Ashore		Aboard ship		
		In hsg. units	In barracks			
State total ..	61,019	35,115	13,698	12,206	64,023	26,129
By island:						
Oahu	60,641	34,868	13,583	12,190	63,649	25,986
Hawaii	162	110	42	10	142	60
Maui	27	21	-	6	53	19
Kauai	164	116	48	-	179	64
Kure Atoll	25	-	25	-	-	-
By service:						
Air Force	6,042	4,992	1,050	-	10,246	3,896
Army	17,721	11,527	6,194	-	22,917	9,492
Coast Guard	825	525	84	216	1,119	474
Marine Corps	12,894	8,330	4,564	-	7,938	8,330
Navy	23,537	9,741	1,806	11,990	21,803	8,937

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, July 1, 1980 (Statistical Report 139, May 15, 1980).

Table 233.-- NATIONAL GUARD STRENGTH: 1970 TO 1980

[As of June 30.]

Year	Total	Air	Army
1970	3,929	1,604	2,325
1971	4,510	1,569	2,941
1972	4,803	1,574	3,229
1973	4,822	1,539	3,283
1974	4,859	1,493	3,366
1975	5,062	1,554	3,508
1976	5,090	1,626	3,464
1977	4,902	1,709	3,193
1978	5,249	1,808	3,441
1979	5,394	1,872	3,522
1980	5,378	1,910	3,468

Source: Hawaii State Department of Defense, Annual Report (annual).

Table 234.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY: 1970 TO 1981

[Annual averages unless otherwise specified.]

Year	Total	Air Force	Army	Navy
1970	22,080	3,680	6,100	12,300
1971	21,520	3,430	6,020	12,070
1972	21,200	3,400	6,000	11,800
1973	20,600	3,300	6,050	11,250
1974	20,200	3,300	5,700	11,200
1975	19,700	3,300	5,300	11,100
1976	19,200	3,200	4,950	11,050
1977	19,000	3,050	4,750	11,200
1978	19,100	2,850	4,500	11,750
1979	18,850	2,750	4,250	11,850
1980	18,700	2,650	4,100	11,950
1981 April (p) .	19,200	2,600	4,250	12,350

Source: Hawaii State Department of Labor and Industrial Relations, State of Hawaii Labor Force Statistics for 1970 and 1971, Labor Force Data Book (March 1978), as revised May 1981, and records.

Table 235.-- DEFENSE EXPENDITURES: 1970 TO 1980

Year	Amount ($1,000)
1970	639,389
1971	708,764
1972	744,240
1973	840,855
1974	897,863
1975	982,779
1976	1,034,226
1977	1,086,561
1978	1,155,517
1979	1,221,784
1980	1,317,402

Source: Quarterly reports of armed forces.

Table 236.-- DEFENSE EXPENDITURES, BY CATEGORY AND SERVICE: 1980

[In thousands of dollars.]

Expenditure category	All services	Air Force	Army	Navy and Marines	Coast Guard
All categories	1,317,402	141,659	441,802	711,252	22,689
Military payroll	533,691	68,771	225,600	222,378	16,942
Civilian payroll	418,759	31,439	83,603	300,161	3,556
Supplies, equipment, services	364,952	41,449	132,599	188,713	2,191

Source: Quarterly reports of armed forces.

Table 237.-- MILITARY PRIME CONTRACT AWARDS OF $10,000 OR MORE, BY SERVICE: 1977 TO 1980

[In thousands of dollars. For fiscal years ended September 30. Data refer to net value of military procurement actions.]

Fiscal year	Total	Army	Navy	Air Force	Defense logistics agency
1977	223,805	46,385	77,298	21,003	71,242
1978	292,947	46,416	119,998	14,597	104,166
1979	307,041	55,384	111,350	23,601	110,457
1980	315,251	47,068	75,271	31,103	154,055

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Prime Contract Awards by State (annual).

Table 238.-- HOUSING UNITS OWNED BY THE ARMED FORCES: 1980 AND 1981

[As of April 1.]

Year	All services	Air Force	Army	Coast Guard	Navy and Marines
1980	19,354	2,975	7,186	315	8,878
1981	19,347	2,975	7,186	308	8,878

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1981 (Statistical Report 148, July 15, 1981), tables 9 and 10.

Table 239.-- VETERANS IN CIVIL LIFE: 1975 AND 1981

[In thousands.]

Period of service	June 30, 1975	March 31, 1981
Total veterans 1/	93	93
War veterans 1/	81	76
Vietnam era	31	32
Korean conflict	21	20
World War II	33	29
World War I	2	1
Post-Vietnam era only 2/	-	4
Between Korea and Vietnam only	12	13

1/ Veterans who served in more than one conflict are counted only once in the totals and subtotals.

2/ Service only after May 7, 1975.

Source: Veterans Administration, Veteran Population by Age, State of Residence and Regional Office, by Period of Service (semi-annual report).

Table 240.-- MILITARY PERSONNEL RECEIVING RETIRED PAY: SEPTEMBER 30, 1980

Service	Number of personnel	Monthly amount 1/ (dollars)	
		Total	Per person
Dept. of Defense	9,040	8,851,631	979
Army	3,919	3,586,423	915
Navy	2,197	2,170,863	988
Marine Corps	591	617,255	1,044
Air Force	2,333	2,477,090	1,062

1/ Before deductions for withholding taxes and allotments, but after deductions for survivor benefits, dual compensation, etc.

Source: U.S. Department of Defense, DOD Actuary's Office, records.

Section 11

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by sex, occupation, and industry, work disability, wage rates, payrolls, hours, turnover, industrial safety, unionization, and strikes.

The civilian labor force averaged 400,000 in 1980; of this total, 380,000 persons were employed and 20,000 were unemployed and seeking work. The civilian jobcount rose from 332,000 in 1990 to 444,000 a decade later. (The jobcount differs from employment because the latter counts multiple jobholders -- "moonlighters" -- only once.) The unemployment rate averaged 5.0 percent in 1980, with island levels ranging from 4.8 to 8.4 percent. In 1976, 57.9 percent of all females 16 years old and over were in the civilian labor force -- the third highest ratio in the nation. By occupation, one out of six civilian workers is classified as professional or technical. Activities with especially large numbers of employees include government (89,000 in 1980), services (99,000), and retail trade (86,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached $12,400 in 1979, almost twice the 1969 average. Average weekly hours in 1979 ranged from 31.3 (for hotels) to 44.9 (for communications and utilities). Labor union membership was estimated at 134,000 in 1978. Work stoppages in 1980 involved 6,890 workers.

Analyzing labor force trends is greatly complicated by shifts in sources and estimating methods. Prior to 1970, the number of employed civilians was estimated from data on the number of jobs covered by the Hawaii State Employment Security Law; workers holding more than one job were accordingly counted more than once. From 1970 to 1975, the same source was used, but the totals were adjusted to exclude the double-counting thought to be present. Then, beginning in 1976, the labor force estimates were based primarily on the Current Population Survey, a relatively small household survey subject to considerable sampling variation. The 1970-1975 estimates were later revised for greater comparability with the 1976-1980 data.

Principal sources for the data on labor force, employment, hours, earnings, unions and strikes are the decennial reports of the U.S. Bureau of the Census, the same agency's 1976 Survey of Income and Education, various studies by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, and annual surveys of pay rates by the Hawaii Employers Council. Historical Statistics of Hawaii, Section 4, includes figures for earlier years. Statistics for the nation as a whole are published in Section 13 of the Statistical Abstract of the United States: 1980.

Table 241.-- EMPLOYMENT STATUS, BY SEX: SPRING 1976

[Excludes inmates of institutions and members of the armed forces in military barracks or aboard ships. Because of these omissions, the 1976 data are not comparable with results of the 1970 census.]

Sex	Population, 16 years and over 1/	Civilian labor force		Employed	Unemployed: percent 2/
		Number	Percent 3/		
Both sexes .	575,000	392,000	68.1	351,000	10.3
Male	276,000	219,000	79.3	196,000	10.2
Female	299,000	173,000	57.9	155,000	10.5

1/ Includes armed forces living off post or with their families on post.

2/ Of the civilian labor force.

3/ Of persons 16 years old and over. The percent for females was exceeded only by those reported for Alaska and the District of Columbia.

Source: U.S. Bureau of the Census, "Demographic, Social, and Economic Profile of States: Spring 1976," Current Population Reports, Population Characteristics, Series P-20, No. 334, January 1979, table 31.

Table 242.-- CIVILIAN LABOR FORCE, BY SEX: ANNUAL AVERAGES, 1976 AND 1979

[Data are for the civilian noninstitutional population, 16 years old and over.]

Sex	Civilian labor force		Labor force participation rates (percent)	
	1976	1979	1976	1979
Both sexes ...	400,000	399,000	69.2	65.4
Male	220,000	216,000	80.0	75.5
Female	180,000	183,000	59.4	56.5

Source: U.S. Bureau of Labor Statistics estimates cited in Statistical Abstract of the United States: 1980, p. 395.

Table 243.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE: ANNUAL AVERAGES, 1970 TO 1980

Year	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1970	321,550	305,650	15,900	4.9
1971	336,800	313,450	23,350	6.9
1972	351,000	324,050	26,950	7.7
1973	364,600	338,350	26,250	7.2
1974	375,000	345,350	29,650	7.9
1975	382,950	351,100	31,850	8.3
1976	396,000	357,000	39,000	9.8
1977	404,000	374,000	30,000	7.4
1978	400,000	369,000	31,000	7.8
1979	399,000	374,000	25,000	6.3
1980	400,000	380,000	20,000	5.0

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 1-2, as revised May 1981.

Table 244.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, BY ISLANDS: ANNUAL AVERAGES, 1979 AND 1980

Year and island	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1979				
State total	399,000	374,000	25,000	6.3
Oahu	313,650	294,550	19,100	6.1
Hawaii	35,400	32,550	2,850	8.1
Kauai and Niihau	17,550	16,550	1,000	5.6
Maui County	32,400	30,350	2,050	6.3
Lanai	1,650	1,550	100	5.7
Maui	27,200	25,650	1,550	5.7
Molokai	3,550	3,150	400	11.2
1980				
State total	400,000	380,000	20,000	5.0
Oahu	313,200	298,300	14,900	4.8
Hawaii	35,450	33,050	2,350	6.7
Kauai and Niihau	17,750	16,900	850	4.9
Maui County	33,650	31,750	1,900	5.6
Lanai	1,700	1,650	100	4.9
Maui	28,400	26,900	1,500	5.3
Molokai	3,500	3,200	300	8.4

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 1-16, as revised May 1981.

Table 245.-- ETHNIC STOCK OF EMPLOYED CIVILIANS, 16 YEARS OLD AND OVER, BY SEX, BY COUNTIES: 1980

Sex and ethnic stock	State total	Honolulu	Hawaii	Kauai	Maui
Total	372,482	284,824	36,236	17,337	34,085
Male	208,665	157,866	21,008	9,683	20,108
Caucasian	55,605	41,821	4,919	2,150	6,715
Japanese	62,150	48,231	6,450	2,959	4,510
Chinese	12,520	11,951	156	147	266
Filipino	26,066	18,362	2,496	2,119	3,090
Hawaiian	2,022	950	630	75	367
Korean	2,913	2,812	-	-	101
Negro	1,086	1,017	-	19	51
Puerto Rican	1,538	1,073	290	74	101
Samoan	1,440	1,414	26	-	-
Other unmixed 1/ ..	2,075	1,624	175	73	202
Part Hawaiian	29,137	19,688	4,433	1,333	3,683
Other mixed	12,110	8,922	1,433	733	1,021
Female	163,817	126,958	15,228	7,654	13,977
Caucasian	37,367	27,953	3,785	1,799	3,829
Japanese	56,563	45,679	4,930	2,107	3,847
Chinese	10,265	9,918	186	110	51
Filipino	18,410	13,453	1,258	1,640	2,058
Hawaiian	1,848	1,408	220	18	202
Korean	3,275	3,013	110	-	152
Negro	442	392	-	-	51
Puerto Rican	590	308	143	38	101
Samoan	700	700	-	-	-
Other unmixed 1/ ..	1,222	1,222	-	-	-
Part Hawaiian	23,676	16,085	3,608	1,192	2,790
Other mixed	9,460	6,828	988	749	895
Sample size 2/	5,853	3,140	979	942	792

1/ Includes not reported.

2/ Employed civilians 16 years old and over.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 246.-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES, 1970 TO 1980

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/			
					Total	Maui	Lanai	Molokai
1970 ...	331,580	270,310	28,410	12,540	20,320	17,410	2,920	
1971 ...	339,070	276,260	29,000	12,960	20,840	18,090	2,730	
1972 ...	349,950	285,900	29,450	13,050	21,550	18,900	900	1,700
1973 ...	365,050	298,900	30,150	13,600	22,250	19,800	900	1,550
1974 ...	374,650	306,350	31,000	13,600	23,650	21,150	900	1,600
1975 ...	380,900	308,550	32,350	14,550	25,400	22,950	1,000	1,450
1976 ...	387,000	312,100	33,000	15,250	26,600	24,100	950	1,500
1977 ...	398,600	319,900	34,100	15,900	28,450	23,000	350	1,350
1978 ...	417,500	334,400	35,400	16,650	30,950	25,300	350	1,400
1979 ...	434,500	348,150	36,300	17,200	32,650	27,250	350	1,400
1980 ...	444,350	355,300	37,000	17,700	34,400	29,050	300	1,400

1/ Jobcounts for agriculture (wage and salary, self-employed, unpaid family workers) and domestics not included in island breakdown for Maui County for 1977 through 1980.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), tables 9-56, as revised; Labor Force Statistics, Bull. No. 70-F and 72-F.

Table 247.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1972 TO 1980

Industry	1972	1977	1978	1979	1980
Nonagriculture, wage and salary	312,700	359,400	377,300	394,100	404,250
Contract construction	23,600	19,750	20,650	23,400	23,950
Manufacturing	24,900	23,200	23,700	24,000	23,500
Durable goods	4,550	4,600	4,700	4,800	4,350
Nondurable goods	20,350	18,600	19,000	19,150	19,150
Food processing	12,550	11,250	11,700	11,650	11,750
Sugar	4,450	3,950	4,150	4,050	4,050
Pineapple	4,250	3,050	3,200	3,200	3,400
Other	3,800	4,250	4,300	4,400	4,300
Textile, apparel	3,550	3,250	3,250	3,300	3,050
Printing, publishing	2,800	2,750	2,850	2,950	3,000
Other nondurables	1,450	1,350	1,200	1,250	1,300
Transp., commun., utilities	24,800	28,200	28,800	30,500	30,900
Transportation	14,800	19,200	19,950	21,200	21,200
Communication	7,350	6,500	6,350	6,750	7,100
Utilities	2,650	2,500	2,500	2,500	2,600
Trade	75,250	92,200	97,900	102,900	104,450
Wholesale	15,150	16,600	17,200	18,300	18,550
Retail	60,100	75,550	80,700	84,650	85,950
Finance, insur., real estate	20,200	25,650	28,850	31,500	33,550
Services and miscellaneous	64,550	84,750	90,300	95,350	98,850
Hotels	17,600	22,100	22,850	24,100	24,950
Other services, misc.	47,000	62,650	67,450	71,250	73,950
Government	79,400	85,700	87,050	86,500	89,050
Federal	32,700	29,300	29,350	29,700	30,000
Air Force	3,400	3,050	2,850	2,750	2,650
Army	6,000	4,750	4,500	4,250	4,100
Navy	11,800	11,200	11,750	11,850	11,950
Other	11,500	10,250	10,250	10,800	11,250
State	35,300	42,650	43,350	43,300	45,150
Local	11,450	13,800	14,350	13,500	13,900
Agriculture, wage and salary	11,200	11,300	11,550	10,800	10,550
Sugar	5,550	5,000	4,900	4,950	4,850
Pineapple	2,950	2,400	2,550	2,550	2,500
Other	2,700	3,900	4,100	3,300	3,200
Nonagric., self-employed 1/	21,300	23,000	23,800	24,350	24,550
Agric., self-employed 2/	4,600	4,400	4,700	4,550	4,500
Labor disputes	150	500	150	700	500

Footnotes and source follow next table.

Table 248.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1980

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	404,250	333,150	28,300	14,700	28,050
Contract construction	23,950	19,400	1,800	850	1,900
Manufacturing	23,500	16,700	2,800	1,300	2,650
Durable goods	4,350	3,700	250	(Z)	350
Nondurable goods	19,150	13,000	2,550	1,300	2,300
Food processing	11,750	6,250	2,200	1,200	2,100
Textile, apparel	3,050	2,950	(NS)	(NS)	(NS)
Printing, publishing	3,000	2,700	(NS)	(NS)	(NS)
Other nondurables	1,300	1,100	(NS)	(NS)	(NS)
Transp., commun., utilities .	30,900	25,700	1,950	1,550	1,650
Transportation	21,200	18,250	(NS)	(NS)	(NS)
Communication	7,100	5,600	(NS)	(NS)	(NS)
Utilities	2,600	1,900	(NS)	(NS)	(NS)
Trade	104,450	86,900	6,850	3,650	7,050
Wholesale	18,550	16,300	1,250	350	650
Retail	85,950	70,600	5,600	3,300	6,400
Finance, insur., real estate	33,550	29,250	1,200	1,000	2,100
Services and miscellaneous ..	98,850	79,700	7,100	3,600	8,450
Hotels	24,950	15,250	3,150	1,700	4,800
Other services, misc.	73,950	64,450	3,950	1,900	3,600
Government	89,050	75,550	6,550	2,750	4,200
Federal	30,000	28,850	600	250	300
Air Force	2,650	2,550	(NS)	(NS)	(NS)
Army	4,100	4,050	(NS)	(NS)	(NS)
Navy	11,950	11,900	(NS)	(NS)	(NS)
Other	11,250	10,350	(NS)	(NS)	(NS)
State	45,150	36,650	4,100	1,650	2,750
Local	13,900	10,050	1,800	850	1,150
Agriculture, wage and salary ..	10,550	2,650	3,250	1,550	3,150
Sugar	4,850	800	1,400	1,400	1,200
Pineapple	2,500	1,000	-	-	1,500
Other	3,200	800	1,850	150	450
Nonagric., self-employed 1/ ...	24,550	18,250	2,550	1,150	2,650
Agric., self-employed 2/	4,500	900	2,850	250	500
Labor disputes	500	350	50	50	50

Z Fewer than 50.
NS Not shown separately.
1/ Includes unpaid family workers and domestics.
2/ Includes unpaid family workers.
Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (March 1978), as revised May 1981.

Table 249.-- INDUSTRY BY SEX: 1980

[Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 5,923 persons 16 years old and over.]

Industry 1/	Both sexes	Male	Female
Civilian workers, 16 years old and over	378,686	206,481	172,205
Agriculture	13,000	10,215	2,786
Construction and mining	28,793	26,653	2,140
Manufacturing	23,583	14,502	9,080
Transportation, communication, utilities	30,170	21,562	8,608
Wholesale and retail trade	83,992	36,706	47,286
Finance, insurance and real estate	28,477	13,595	14,881
Services	112,701	46,710	65,991
Public administration, except armed forces	53,659	34,524	19,135
Not reported	4,311	2,012	2,299

1/ Because of revisions in industrial codes, these tabulations are not directly comparable to those in earlier tabulations from the Hawaii Health Surveillance Program.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 250.-- OCCUPATION, BY SEX: 1980

[Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 5,923 employed civilians 16 years old and over.]

Occupation 1/	Both sexes	Male	Female
Employed civilians, 16 and over	378,686	206,481	172,205
Professional and technical workers .	62,039	32,934	29,105
Farmers and farm managers	2,009	1,710	298
Managers, officials, proprietors ...	43,976	29,525	14,450
Clerical workers	68,138	14,780	53,358
Sales workers	35,653	16,302	19,351
Craftsmen and foremen	46,723	43,860	2,863
Operatives	26,616	18,736	7,879
Private household workers	1,685	18	1,667
Service workers	63,700	25,698	38,002
Farm laborers and foremen	6,104	4,475	1,629
Laborers, except farm	17,722	15,938	1,784
Occupation not reported	4,322	2,504	1,819

1/ Because of revisions in occupation codes, these tabulations are not directly comparable to those for 1977 in the Data Book 1979, table 175.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 251.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1970 TO 1980

Year	Number of employers, December	Average employment	Wages and salaries	
			Total ($1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1970	13,593	302,259	2,243,951	7,424
1971	13,904	310,658	2,384,785	7,677
1972	14,563	321,352	2,569,893	7,997
1973	15,346	336,026	2,849,172	8,479
1974	15,914	342,683	3,114,073	9,087
1975	16,558	349,887	3,417,570	9,767
1976	17,130	356,217	3,685,818	10,347
1977	17,831	366,555	3,996,746	10,903
1978	18,847	383,451	4,459,594	11,630
1979	19,639	400,963	4,983,844	12,429
1980	19,988	412,281	5,585,489	13,548
EXCLUDING GOVERNMENT				
1975	16,552	267,805	2,439,226	9,108
1976	17,124	271,406	2,601,789	9,586
1977	17,825	280,836	2,816,521	10,029
1978	18,841	296,454	3,202,300	10,802
1979	19,633	314,447	3,689,161	11,732
1980	19,982	323,307	4,105,082	12,697
NON-AGRICULTURAL 1/				
1975	16,041	256,720	2,335,946	9,099
1976	16,567	260,297	2,493,750	9,580
1977	17,267	269,554	2,706,712	10,041
1978	18,431	285,313	3,083,421	10,807
1979	19,213	303,305	3,551,436	11,709
1980	19,597	311,808	3,956,617	12,689

1/ Data for 1975-1977 exclude approximately 850 persons employed by condominium associations, classified as agricultural in 1975-1977 but non-agricultural before 1975 and after 1977.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and records.

Table 252.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES OR ISLANDS: 1980

Island or county	Including government		Excluding government			
	Number of employers, Dec.	Average employment	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
State total ..	19,988	412,281	19,982	323,307	4,105,082	12,697
Oahu	15,439	335,538	15,436	260,022	3,354,907	12,902
Hawaii County	2,018	31,293	2,015	24,777	295,638	11,932
Maui County	1,709	29,633	1,706	25,448	302,438	11,885
Kauai County	828	15,818	825	13,061	152,099	11,645

Source: Hawaii State Department of Labor and Industrial Relations, 1980 Employment and Payrolls in Hawaii (September 1981).

Table 253.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1980

Industry	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
All industries	19,988	412,281	5,585,489	13,548
Government	6	88,973	1,480,407	16,639
Federal	1	29,980	633,785	21,140
State	1	45,100	640,323	14,198
County	4	13,894	206,299	14,848
Private	19,982	323,307	4,105,082	12,697
Agriculture, forestry, fisheries	385	11,499	148,465	12,911
Sugar	14	4,765	75,186	15,779
Pineapple	5	2,509	30,635	12,210
Other	366	4,226	42,645	10,091
Mining and contract construction	1,785	24,080	485,965	20,181
Manufacturing	745	23,765	340,236	14,317
Sugar mills	13	3,817	66,798	17,500
Pineapple canning	3	3,348	36,105	10,784
Other food processing	166	4,429	58,054	13,108
Other manufacturing	563	12,170	179,279	14,731
Transportation	783	21,164	384,845	18,184
Communications	78	7,128	149,473	20,970
Utilities	43	2,568	57,940	22,562
Wholesale trade: Durable	817	8,880	153,288	17,262
Non-durable	902	9,784	131,247	13,414
Retail trade	4,658	86,756	726,782	8,377
Eating and drinking places	1,501	34,459	208,538	6,052
Other retail trade	3,157	52,298	518,243	9,909
Finance, insurance, real estate	2,911	31,140	431,272	13,849
Services	6,834	96,430	1,094,351	11,349
Hotels, rooming houses, etc.	180	24,754	244,655	9,883
Medical and other health services	1,365	17,545	271,795	15,491
Other services	5,289	54,131	577,880	10,676
Nonclassifiable establishments	41	113	1,238	10,957

Source: Hawaii State Department of Labor and Industrial Relations, 1980 Employment and Payrolls in Hawaii (September 1981).

Table 254.-- AVERAGE ANNUAL WAGE AND SALARY PAYMENTS PER WORKER, BY CLASS OF WORKER: 1970, 1979, AND 1980

Class of worker	1970	1979	1980	Percent change 1970-1980	Percent change 1979-1980
CURRENT DOLLARS					
Total	7,424	12,429	13,548	82.5	9.0
Federal	9,752	19,236	21,140	116.8	9.9
State 1/	8,759	12,609	14,198	62.1	12.6
County 1/	8,726	13,124	14,848	70.2	13.1
Private	6,849	11,732	12,697	85.4	8.2
CONSTANT (1970) DOLLARS					
Total	7,424	6,156	6,075	-18.2	-1.3
Federal	9,752	9,527	9,480	-2.8	-0.5
State 1/	8,759	6,245	6,367	-27.3	2.0
County 1/	8,726	6,500	6,658	-23.7	2.4
Private	6,849	5,811	5,694	-16.9	-2.0
Family budget 2/	12,776	25,799	28,488	123.0	10.4
Index (1970=100)	100.0	201.9	223.0	123.0	10.4

1/ Data for State and County employees reflect retroactive payment in 1980 of income earned during 1979.

2/ Intermediate budget for an urban family of four persons on Oahu, as estimated by the U.S. Bureau of Labor Statistics. Includes consumption, gifts and contributions, social security and disability payments, and personal income taxes.

Source: Average wages from Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and records. Family budgets from U.S. Bureau of Labor Statistics, annual releases.

Table 255.-- LABOR TURNOVER RATES IN MANUFACTURING: 1972 TO 1980

[Turnover per 100 wage and salary employees. Excludes pineapple canning.]

Year	Accessions			Separations		
	Total	New hires	Recalls 1/	Total	Quits	Layoffs
1972	2.2	1.8	...	2.4	1.2	0.4
1973	2.5	2.1	...	2.4	1.4	0.3
1974	2.3	1.8	...	2.3	1.2	0.5
1975	2.2	1.6	...	2.2	1.0	0.6
1976	2.4	1.3	0.6	2.5	0.8	1.0
1977	2.5	1.5	0.6	2.4	0.9	0.7
1978	2.9	1.4	1.2	2.9	1.0	1.3
1979	3.2	1.8	1.0	3.4	1.2	1.4
1980	2.9	1.6	1.0	3.3	1.1	1.6

1/ Not available before 1976.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 95-96, as revised.

Table 256.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1970 TO 1980

Industry 1/	Ave. weekly earnings (dollars)			Average weekly hours			Ave. hourly earnings (dollars)		
	1970	1979	1980	1970	1979	1980	1970	1979	1980
Contract construction	216.84	397.80	428.97	39.0	36.0	36.2	5.56	11.05	11.85
Manufacturing	126.80	244.35	258.17	40.0	38.3	37.8	3.17	6.38	6.83
Food and kindred products	115.43	217.74	238.26	40.5	38.0	37.7	2.85	5.73	6.32
Communication and utilities	169.49	378.35	421.16	42.8	44.2	44.9	3.96	8.56	9.38
Trade 2/	95.99	173.01	184.82	33.8	33.4	33.3	2.84	5.18	5.55
Wholesale trade	126.16	238.23	252.50	38.7	38.3	38.2	3.26	6.22	6.61
Retail trade 2/	82.79	151.69	162.30	31.6	31.8	31.7	2.62	4.77	5.12
Finance	113.64	174.83	185.58	...	...	...	...	...	...
Hotels	77.92	166.52	173.72	30.8	31.9	31.3	2.53	5.22	5.55
Laundries	74.93	144.77	151.25	36.2	37.8	36.8	2.07	3.83	4.11

1/ Data for 1969 based on 1967 Standard Industrial Classification (SIC) code; 1979 and 1980 based on 1972 SIC.

2/ Excludes eating and drinking establishments.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised, and records.

Table 257.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS: 1975 AND 1980

[In dollars.]

Job classification	Total employment 1/		Private employment, by island: 1980				
	1975	1980	State average	Kauai	Oahu	Maui	Hawaii
MONTHLY RATES							
Junior typist	541	751	750	...	744	...	...
Clerk-stenographer	671	969	989	...	967	1,257	...
Secretary	760	1,100	1,016	1,081	1,010	1,087	1,024
Accountant (entry level)	860	1,053	1,058	...	1,040	...	...
Drafting technician	779	...	...	...	...	...	...
Civil engineer (entry level)	899	1,277	1,339	...	1,339	...	...
Hospital attendant	532	790	791	763	804	738	745
Staff nurse	943	1,326	1,288	1,147	1,292	1,248	...
HOURLY RATES							
Housekeeper	3.16	4.500	4.500	4.520	4.494	4.500	4.524
Cook, general	4.74	6.734	6.676	7.210	6.466	7.025	6.932
Waiter/waitress	2.30	3.115	3.111	3.120	3.109	3.106	3.130
Laborer (light)	3.44	5.380	5.483	5.521	5.351	5.589	5.458
Carpenter (maintenance)	5.84	8.570	7.757	7.863	7.894	7.622	7.202
Electrician (maintenance)	7.02	10.441	8.613	7.758	9.040	8.363	8.239
Automotive mechanic	5.68	8.398	8.230	7.812	8.774	7.853	7.698
Truck driver (1 1/2-5 tons)	4.94	7.000	6.409	6.201	6.457	6.268	6.490

1/ Statewide average for both private and government employment.

Source: Hawaii Employers Council, Pay Rates in Hawaii (annual).

Table 258.-- MINIMUM WAGE CHRONOLOGY: 1942 TO 1981

[In dollars.]

Effective date	Oahu	Other islands
1942: April 1 1/	0.25	0.20
1943: July 1	0.30	0.25
1945: July 1	0.40	0.40
1953: July 1	0.65	0.55
1955: July 1	0.75	0.65
1957: July 1	0.90	0.85
1958: July 1	1.00	1.00
1962: July 1	1.15	1.15
1964: January 1	1.25	1.25
1969: July 1	1.40	1.40
1970: July 1	1.60	1.60
1974: July 1	2.00	2.00
1975: July 1	2.40	2.40
1978: July 1	2.65	2.65
1979: July 1	2.90	2.90
1980: July 1	3.10	3.10
1981: July 1	3.35	3.35

1/ Inception of minimum wage law.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 259.-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1974 TO 1980

Calendar year	Island workers on the Mainland 1/		Mainland workers in Hawaii 2/		Ratio 3/
	Total 4/	Regular only	Total 4/	Regular only	
1974	5,924	5,924	6,988	6,988	118
1975	9,425	7,607	9,748	8,785	115
1976	9,934	7,458	8,994	8,334	112
1977	7,090	5,846	8,846	8,154	139
1978	4,469	4,313	6,533	6,261	145
1979 5/	4,272	4,272	5,250	5,250	123
1980	6,060	5,590	5,282	5,052	90

1/ Interstate liable initial claims (UI & Supp.), excluding UCFE & Supp. and UCX. Covers Hawaii workers seeking work and filing for benefits on the Mainland. Since July 1980, data have included Federal civilian employees and ex-servicemen.

2/ Interstate agent initial claims (UI & Supp.), excluding UCFE & Supp. and UCX. Covers Mainland workers filing claims for unemployment insurance and registered for work with the Hawaii State Employment Service.

3/ Interstate agent initial claims (regular only) as a percent of inter-state liable initial claims (regular only). Ratios under 100 suggest a net out-migration of workers.

4/ Regular and extended claims. Extended claims were included from February 1975 through March 1978 and in 1980.

5/ The method of counting liable and agent initial claims was revised effective October 1979. Data for 1979 and 1980 are accordingly not directly comparable with figures for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 260.-- WORK DISABILITY STATUS OF PERSONS 18 TO 64 BY SEX: 1976

Sex	Total persons 18 to 64 years old	Total reporting on work disability status	Percent with a work disability 1/			
			Total	Prevented from working	Not prevented from working but not able to work regularly	Able to work regularly
Both sexes ...	507,000	502,000	9.2	3.5	1.1	4.6
Male	256,000	253,000	8.7	2.8	0.7	5.2
Female	251,000	249,000	9.7	4.2	1.5	4.0

1/ A person is classified as "with a work disability" if he has a health condition that limits the kind or amount of work he can do.

Source: U.S. Bureau of the Census, "Demographic, Social, and Economic Profile of States: Spring 1976," Current Population Reports, Population Characteristics, Series P-20, No. 334, January 1979, table 30, pp. 78-81.

Table 261.-- INDUSTRIAL ACCIDENTS, DEATHS, AND INSURANCE PAYMENTS: 1970 TO 1980

Year	Accidents		Deaths		Insurance payments ($1,000)
	Number	Rate 1/	Number	Rate 2/	
1970	37,405	68.56	40	5.2	12,528
1971	34,561	61.62	21	2.6	16,665
1972	34,901	59.93	45	5.4	18,773
1973	36,277	59.06	61	7.2	19,548
1974	37,646	60.47	72	8.3	18,341
1975	40,435	62.53	59	6.7	22,503
1976	38,721	58.60	39	4.3	27,760
1977	37,393	54.76	50	5.4	23,652
1978	38,869	54.10	48	5.2	32,847
1979	43,057	57.01	49	5.2	42,573
1980	47,725	62.01	49	5.0	55,331

1/ Accidental injuries per 1,000,000 estimated non-federal wage and salary employee hours.

2/ Accidental deaths per 100,000 total resident population. Calculated from DPED Statistical Report 147, table 1.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 262.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1972 TO 1979

Year	Injuries and illnesses		Lost workdays	Lost workday cases
	Number	Rate 1/		
1972	25,578	13.4	129,900	11,384
1973	28,842	13.9	151,600	12,795
1974	29,399	13.8	161,100	13,744
1975 2/	26,600	12.7	175,691	13,573
1976 2/	24,592	11.1	173,675	12,462
1977 2/	23,820	10.7	157,830	12,197
1978 2/	26,399	11.3	168,225	13,831
1979 2/	27,013	11.0	205,858	14,986

1/ Per 100 full-time workers.

2/ Data exclude agricultural employers with fewer than 11 employees.

Source: Hawaii State Department of Labor and Industrial Relations, 1979 Occupational Injuries and Illnesses Survey, State of Hawaii.

Table 263.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1978 AND 1979

Subject	1978 total	1979		
		Total	Injuries	Illnesses
Recordable cases	26,399	27,013	26,557	456
Lost workday cases	13,831	14,986	14,764	222
Lost workdays	168,225	205,858	201,126	4,732
Per lost workday case	12	14	14	21
Nonfatal cases without lost workdays.	12,530	12,001	11,777	224
Incidence per 100 full-time workers .	11.3	11.0	10.8	0.2
Agriculture	16.9	18.6	18.2	0.4
Mining	7.9	8.7	8.7	-
Construction	26.5	29.4	29.2	0.3
Manufacturing	17.4	16.1	15.7	0.4
Transportation, public utilities ..	11.6	12.5	12.4	0.1
Wholesale and retail trade	10.1	9.0	8.9	0.1
Finance, insurance, real estate ...	3.5	3.2	3.2	(Z)
Services	8.8	8.1	7.8	0.2

(Z) Less than 0.05.

Source: Hawaii State Department of Labor and Industrial Relations, 1979 Occupational Injuries and Illnesses Survey, State of Hawaii.

Table 264.-- MEMBERSHIP IN LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1964 TO 1978

[Numbers in thousands]

Year	Total unions and associations		Labor unions				Employee associations 1/
				Affiliated with AFL-CIO	Unaffiliated		
	Number	Percent 2/	Total		National	Local unions	
1964 ..	(NA)	(NA)	49	24	24	(NA)	(NA)
1966 ..	(NA)	(NA)	62	31	25	7	(NA)
1968 ..	77	30.2	70	36	27	7	7
1970 ..	89	30.3	82	45	30	7	8
1972 ..	123	39.9	115	78	30	7	9
1974 ..	129	38.7	121	84	29	7	8
1976 ..	140	40.1	129	95	33	(Z)	12
1978 ..	134	35.8	120	94	27	(Z)	14

Z Fewer than 500.
NA Not available.
1/ Professional and State employee associations.
2/ Total union and association membership as a percent of nonagricultural employment. Union membership as a percent of nonagricultural employment was: 1964, 23.6; 1966, 26.6; 1970, 30.3; and 1974, 38.7.

Source: U.S. Department of Labor, Bureau of Labor Statistics, data supplied February 25, 1980.

Table 265.-- MEMBERSHIP IN LABOR UNIONS, BY CLASS OF WORKER AND ISLAND: 1973

Labor union membership	Total employment		Private employment	
	State total	Oahu	State total	Oahu
All workers 1/	325,100	267,000	249,100	201,000
Organized	130,700	97,200	90,400	65,500
AFL-CIO	89,100	73,500	60,100	50,600
Teamsters	5,900	5,700	5,900	5,700
ILWU	23,600	8,500	23,600	8,500
Others	12,100	9,500	800	700
Not organized	194,400	169,800	158,700	135,500

1/ As of October 1973. Excludes self-employed, domestics, and unpaid family workers.

Source: Hawaii Employers Council, Estimated Union Membership in Hawaii (Research Report No. 1211, January 1974).

Table 266.-- WORK STOPPAGES: 1977 TO 1980

[As estimated by the Hawaii State Department of Labor and Industrial Relations. Data exclude stoppages lasting less than one full shift (8 hours) and stoppages affecting fewer than 6 workers. These data are not comparable to similar Federal statistics due to definitional and timing differences.]

Year	Number of stoppages 1/	Workers involved 1/	Man-days lost 2/
1977	12	9,670	206,795
1978	14	1,774	33,990
1979	10	10,380	229,880
1980	9	6,886	138,490

1/ Stoppages carrying over from previous year are counted in both years.

2/ Partly estimated.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Table 267.-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS: 1973 TO 1980

[As of December 31.]

Year	Total	State employees	County employees
1973 1/	35,293	26,453	8,840
1974 2/	37,005	26,904	10,101
1975	38,778	28,791	9,987
1976	39,738	29,816	9,922
1977	40,190	30,083	10,107
1978	40,760	30,360	10,400
1979	40,026	30,123	9,903
1980	40,511	30,609	9,902
Collective bargaining agent (union): 1980			
HGEA	15,396	12,135	3,261
HSTA	9,020	9,020	-
UPW	9,886	6,500	3,386
UHPA (UH faculty)	2,814	2,814	-
SHOPO (police officers)	1,963	-	1,963
HFFA (firefighters)	1,432	140	1,292

1/ City and County of Honolulu as of February 1, 1974; Hawaii County as of January 15, 1974; Kauai County as of January 23, 1974.

2/ Counties as of January 15, 1975.

Source: Hawaii Public Employment Relations Board, HPERB Informational Bulletin, No. 6, 8, 10, 12, 13, 14, 15, and 17.

Table 268.-- WORK STOPPAGES: 1960 TO 1979

[Estimated by U.S. Bureau of Labor Statistics.]

Year	Number of stoppages begun in year	Workers involved 1/	Man-days idle during year	Percent of estimated nonagricultural working time
1960	32	5,000	16,000	(NA)
1961	33	22,000	47,000	(NA)
1962	34	4,000	71,000	0.19
1963	27	23,000	176,000	0.47
1964	26	3,000	8,000	0.02
1965	24	8,000	45,000	0.11
1966	28	5,000	44,000	0.10
1967	40	11,000	87,000	0.20
1968	14	8,000	252,000	0.32
1969	26	18,000	205,000	0.03
1970	22	6,800	152,700	0.26
1971	21	3,700	32,200	0.05
1972	21	9,300	73,700	0.12
1973	11	9,600	97,100	0.12
1974	24	17,900	462,700	0.55
1975	13	1,900	32,400	0.04
1976	20	3,000	35,300	0.04
1977	8	14,700	666,000	0.74
1978	18	12,400	99,700	0.11
1979 2/	12	11,900	274,800	0.27
ISLANDS: 1979				
Oahu	10	11,700	273,500	(NA)
Others	2	200	1,300	(NA)

NA Not available.

1/ Workers counted more than once if involved in more than one stoppage during year.

2/ Mean duration per worker involved was 32.7 days.

Source: U.S. Bureau of Labor Statistics, Work Stoppages, 1979, Summary 80-12 (December 1980), and information supplied June 24, 1980.

Section 12

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the State income and product system and the other to the distribution of income to families and individuals. Specifically, information is given on gross state product, industrial income, personal income, family income, poverty, personal wealth, and family expenditures. Data on wage rates, salaries, and earnings appear in Sections 3, 8, 11, and 22; on industrial payrolls, in Sections 11, 15, 20, 22, and 23; on the family income of homeowners, renters, and visitors, in Sections 7 and 21; on retirement payments and public assistance, in Sections 9 and 10; on taxable income, in Section 8; on agricultural income, in Section 19.

Gross state product in 1979 amounted to approximately $10 billion, or about double the 1972 total. The major sources of outside income to Hawaii in 1980 were defense expenditures ($1.3 billion), pineapple production ($223 million), sugar production ($594 million), and visitor expenditures ($3.0 billion). Personal income in 1980 was $9.4 billion, compared with $3.5 billion only ten years earlier, and per capita personal income was $9,787, more than twice the 1970 level. The per capita figure for Hawaii exceeded the national average by 3 percent, and thus failed to compensate for the Islands' much higher cost of living. The median annual income of families, based on data for 1975, was $18,228 on Oahu, $15,923 on the Neighbor Islands, and $17,770 Statewide; for unrelated individuals, the all-island median was $6,180. The official poverty threshold for a 4-person nonfarm family in Hawaii was set in April 1981 at $9,720. Top wealthholders in Hawaii -- those with gross assets of $60,000 or more -- numbered 11,323 in 1962 and 53,700 in 1972. Total assets of this group in the latter year amounted to $7.9 billion, 40 percent of which was in real estate. The most recent family expenditure survey, taken in 1972 and 1973, reported that the largest items in the family budget on Oahu were housing (accounting for 33.8 percent of spending for current consumption), food (20.4 percent) and transportation (19.1 percent).

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, Community Services Administration, Internal Revenue Service, Hawaii State Department of Agriculture, Hawaii State Department of Planning and Economic Development, and Hawaii Visitors Bureau. Sections 6 and 7 of Historical Statistics of Hawaii present data for earlier years. Comparable data for the country as a whole are given in Statistical Abstract of the United States: 1980, Section 14.

Table 269.-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1970 TO 1980

[In millions of dollars.]

Year	Total for four major industries	Value of production		Defense expenditures	Visitor expenditures 1/
		Raw sugar and molasses	Fresh and processed pineapple		
1970 ...	1,561	187.8	138.6	639.4	595
1971 ...	1,758	202.9	141.4	708.8	705
1972 ...	1,914	184.7	145.4	744.2	840
1973 ...	2,226	222.2	142.4	840.9	1,020
1974 ...	2,926	676.6	127.0	897.9	1,225
1975 ...	2,846	366.1	136.7	982.8	1,360
1976 ...	3,076	257.0	144.5	1,034.2	1,640
1977 ...	3,320	226.8	161.6	1,086.6	1,845
1978 ...	3,792	285.2	162.8	1,155.5	2,188
1979 ...	4,394	345.7	206.4	1,221.8	2,620
1980 ...	5,135	594.1	223.4	1,317.4	3,000

1/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records; data supplied to DPED by armed forces; Hawaii Visitors Bureau, 1980 Annual Research Report, table 1.

Table 270.-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE PRODUCT: 1958 TO 1979

[Preliminary estimates.]

Year	Gross state product (millions of dollars)		Per capita gross state product (dollars)	
	Current dollars	1972 dollars	Current dollars	1972 dollars
1958	1,397.1	2,144.0	2,308	3,541
1959	1,546.6	2,304.5	2,486	3,704
1960	1,762.2	2,595.2	2,747	4,046
1961	1,854.4	2,653.0	2,815	4,028
1962	1,948.7	2,724.7	2,851	3,986
1963	2,055.6	2,742.5	3,013	4,020
1964	2,258.1	3,002.8	3,226	4,290
1965	2,478.4	3,277.2	3,521	4,656
1966	2,757.1	3,533.6	3,882	4,975
1967	3,017.0	3,737.7	4,176	5,173
1968	3,319.9	3,958.7	4,520	5,390
1969	3,728.9	4,242.6	4,971	5,655
1970	4,190.4	4,514.8	5,400	5,818
1971	4,530.8	4,744.4	5,656	5,923
1972	5,039.7	5,039.7	6,087	6,087
1973	5,785.5	5,027.2	6,751	5,866
1974	6,408.1	5,898.9	7,391	6,804
1975	6,981.4	6,099.8	7,897	6,900
1976	7,467.2	6,139.6	8,279	6,807
1977	8,220.0	6,509.6	8,974	7,107
1978	9,178.5	6,752.2	9,880	7,268
1979	10,387.7	6,981.1	10,934	7,349

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1980, forthcoming.

Table 271.-- PERSONAL INCOME AND ITS DISPOSITION: 1977 TO 1979

[Preliminary estimates. In millions of current dollars.]

Item	1977	1978	1979
Personal income	7,023.2	7,727.1	8,673.1
Wage and salary disbursements	4,810.7	5,351.7	5,907.8
Other labor income	308.2	354.2	407.5
Proprietors' income	420.2	423.5	515.0
Rental income of persons	104.4	113.9	118.4
Dividends	152.3	155.6	172.2
Personal interest income	662.4	744.7	919.1
Net interest	559.7	639.7	835.9
Government interest, net	-12.5	-26.1	-58.0
State and local (includes state retirement fund)	-18.7	-32.3	-64.5
Federal	6.2	6.2	6.5
Interest paid by consumers to business	115.2	131.1	141.2
Transfer payments to persons	874.5	933.8	1,034.7
Government	840.7	898.0	995.3
State and local	181.7	192.6	203.6
Federal	659.0	705.4	791.7
Business	33.8	35.8	39.4
Less: Personal contributions for social insurance	309.4	350.3	404.6
State and local government programs	55.4	57.3	61.4
Federal government programs	254.0	293.0	343.2
Disposition of personal income			
Less: Personal tax and non-tax payments	808.6	911.8	1,069.0
State and local	386.9	446.6	502.5
Federal	421.7	465.2	566.5
Equals: Disposable personal income	6,214.6	6,815.3	7,604.1
Less: Personal outlays	5,241.9	5,915.0	6,730.6
Personal consumption expenditures	5,113.0	5,760.0	6,561.2
Interest paid by consumers to business	115.2	131.1	141.2
Unilateral transfer payments to persons, net	13.7	23.9	28.2
Equals: Personal saving	972.7	900.3	873.5

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1980, forthcoming.

Table 272.-- EXPENDITURES ON GROSS STATE PRODUCT: 1977 TO 1979

[Preliminary estimates. In millions of current dollars.]

Item	1977	1978	1979
Gross state product	8,220.0	9,178.5	10,387.7
Personal consumption expenditures	5,113.0	5,760.0	6,561.2
Food, alcoholic beverages and tobacco	1,045.1	1,174.9	1,224.5
Clothing, accessories and jewelry	338.1	345.0	339.2
Personal care	64.1	68.1	70.9
Housing	914.7	1,107.6	1,525.1
Household operation	615.3	672.0	719.5
Medical care	527.8	614.4	664.4
Personal business	320.7	414.0	539.6
Transportation	525.4	564.3	618.5
Recreation	329.5	344.3	346.7
Private education and research	47.0	51.6	57.8
Religious and welfare activities	69.2	75.1	83.6
Foreign travel and other	316.1	328.7	371.4
Gross private domestic investment	1,201.0	1,345.1	1,681.8
Fixed investment	1,101.1	1,223.1	1,540.7
Nonresidential	818.0	878.2	1,049.6
Structures	324.0	373.0	459.8
Producers' durable equipment	494.0	505.2	589.8
Residential	283.1	344.9	491.1
Change in business inventories	99.9	122.0	141.1
Government purchases of goods and services	2,886.7	3,025.3	3,187.1
State and local	1,563.4	1,608.5	1,702.3
Compensation of employees	755.7	811.5	854.3
Other current expenditures	483.9	502.2	520.2
Equipment	23.2	23.6	26.8
Construction	300.7	271.3	300.9
Federal	1,323.3	1,416.8	1,484.8
Defense	1,225.0	1,305.0	1,367.2
Non-defense	98.3	111.8	115.6
Net exports	-1,612.2	-1,500.3	-1,442.9
Exports	3,185.6	3,783.3	4,603.3
Commodities	682.4	827.7	971.3
Services	650.4	756.2	998.3
Visitor and crew expenditures	1,852.8	2,199.4	2,633.6
Less: Imports	4,797.8	5,283.6	6,046.2
Commodities	3,526.7	3,861.3	4,443.7
Services	955.0	1,093.6	1,231.0
Out-of-state expenditures of Hawaii residents	316.1	328.7	371.4
Omissions and discrepancy	631.5	548.4	400.5

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1980, forthcoming.

Table 273.-- EXPENDITURES ON GROSS STATE PRODUCT: 1977 TO 1979

[Preliminary estimates. In millions of 1972 dollars.]

Item	1977	1978	1979
Gross state product	6,509.6	6,752.2	6,981.1
Personal consumption expenditures	3,675.3	3,864.5	3,996.4
Food, alcoholic beverages and tobacco	698.4	720.3	666.8
Clothing, accessories and jewelry	273.9	260.7	241.7
Personal care	43.4	43.2	41.4
Housing	740.6	841.6	1,013.4
Household operation	434.6	446.5	444.2
Medical care	331.5	354.5	354.9
Personal business	212.2	256.3	308.7
Transportation	405.9	410.3	402.2
Recreation	233.2	235.8	224.1
Private education and research	33.7	34.4	34.7
Religious and welfare activities	49.7	50.1	50.2
Foreign travel and other	218.2	210.8	214.1
Gross private domestic investment	803.0	838.7	964.9
Fixed investment	731.3	757.3	880.2
Nonresidential	558.3	566.1	630.8
Structures	214.3	229.5	261.5
Producers' durable equipment	344.0	336.6	369.3
Residential	173.0	191.2	249.4
Change in business inventories	71.7	81.4	84.7
Government purchases of goods and services	2,017.0	1,967.9	1,871.9
State and local	1,087.0	1,042.2	993.9
Compensation of employees	542.5	541.3	512.8
Other current expenditures	347.4	335.0	312.2
Equipment	16.1	15.7	16.8
Construction	181.0	150.2	152.1
Federal	930.0	925.7	878.0
Defense	860.9	852.7	809.6
Non-defense	69.1	73.0	68.4
Net exports	-439.0	-284.7	-92.5
Exports	2,361.0	2,613.7	2,876.3
Commodities	473.8	526.9	561.3
Services	466.9	504.5	599.2
Visitor and crew expenditures	1,420.3	1,582.3	1,715.8
Less: Imports	2,800.0	2,898.4	2,968.8
Commodities	1,896.2	1,954.6	1,988.5
Services	678.7	724.7	752.9
Out-of-state expenditures of Hawaii residents	225.1	219.1	227.4
Omissions and discrepancy	453.3	365.8	240.4

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1980, forthcoming.

Table 274.-- CHARGES AGAINST GROSS STATE PRODUCT: 1977 TO 1979

[Preliminary estimates. In millions of current dollars.]

Item	1977	1978	1979
Compensation of employees	5,492.6	6,128.0	6,777.1
Wage and salary disbursements	4,810.7	5,351.7	5,907.8
Supplements to wages and salaries	681.9	776.3	869.3
Employer contributions for social insurance	373.7	422.1	461.8
State and local government programs	69.0	74.4	72.8
Federal government programs	304.7	347.7	389.0
Other labor income	308.2	354.2	407.5
Proprietors' income	420.2	423.5	515.0
Rental income of persons	104.4	113.9	118.4
Corporate profits before tax	385.9	429.6	516.6
Profits tax	125.5	157.2	206.0
State and local tax	23.3	28.1	37.3
Federal tax	102.2	129.1	168.7
Profits after tax	260.4	272.4	310.6
Dividends	152.3	155.6	172.2
Undistributed profits	108.1	116.8	138.4
Net interest	559.8	639.7	835.9
Personal interest income	662.4	744.7	919.1
Less: Government interest, net	-12.5	-26.1	-58.0
State and local (includes state retirement fund)	-18.7	-32.3	-64.5
Federal	6.2	6.2	6.5
Less: Interest paid by consumers to business	115.2	131.1	141.2
Net state income	6,962.8	7,734.7	8,766.8
Business transfer payments	33.8	35.8	39.4
Indirect business tax and non-tax, state and local	644.9	718.2	822.4
Less: Subsidies less current surplus of state and local government enterprises	-9.0	-11.8	-14.5
Indirect business tax and non-tax, Federal	46.1	50.5	51.6
Less: Subsidies less current surplus of Federal government enterprises	-21.8	-77.3	-81.7
Net state product	7,718.4	8,628.4	9,776.4
Capital consumption allowances	501.6	550.0	611.3
Gross state product	8,220.0	9,178.5	10,387.7

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1980, forthcoming.

Table 275.-- TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME: 1970 TO 1980

Year	Personal income (millions of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1970	3,566	2,898	4,674	3,798	118	114
1971	3,823	3,150	4,830	4,013	116	113
1972	4,178	3,379	5,107	4,177	113	110
1973	4,650	3,819	5,524	4,602	110	108
1974	5,298	4,290	6,174	5,088	113	110
1975	5,802	4,960	6,631	5,797	113	114
1976	6,264	5,321	7,020	6,114	110	111
1977	7,023	5,764	7,669	6,553	110	109
1978	7,727	6,366	8,319	7,152	108	107
1979	8,673	6,993	9,129	7,718	106	104
1980	9,775	(NA)	10,101	(NA)	106	(NA)

NA Not available.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business, August 1980, p. 59, printouts dated April 1979 and August 1981, and Release BEA 81-45.

Table 276.-- PERSONAL INCOME BY MAJOR SOURCES: 1975 TO 1980

[In millions of dollars.]

Item	1975	1976	1977	1978	1979	1980
Labor and proprietors income						
By type:						
Wage and salary disbursements ..	4,010	4,289	4,811	5,352	5,908	6,573
Other labor income	236	269	308	354	407	474
Proprietors income	307	335	420	423	515	521
Farm	64	69	110	79	91	70
Nonfarm	243	265	310	345	424	451
By industry:						
Farm	181	188	226	202	235	231
Nonfarm	4,371	4,704	5,313	5,928	6,595	7,337
Private	2,887	3,104	3,414	3,874	4,482	4,990
Government and govt. enterprises	1,485	1,600	1,898	2,053	2,113	2,347
Federal, civilian	457	496	527	580	598	655
Federal military	496	490	679	726	748	810
State and local	532	614	693	747	768	883
Derivation of personal income						
Labor and proprietors income	4,553	4,892	5,539	6,129	6,830	7,568
Less: Personal contributions for social insurance	252	280	309	350	406	444
Net labor and proprietors income .	4,301	4,612	5,230	5,779	6,425	7,124
Plus: Dividends, interest, and rent	792	828	919	1,014	1,214	1,446
Plus: Transfer payments	710	825	875	934	1,035	1,204
Personal income	5,802	6,264	7,023	7,727	8,673	9,775

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated July and August 1981.

Table 277.-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTIES: 1969 TO 1979

Year	State total 1/	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
Total: 2/						
1969	3,098.6	2,633.7	464.9	207.3	101.2	156.5
1970	3,508.7	2,981.5	527.2	240.5	109.5	177.1
1971	3,757.8	3,186.7	571.1	261.1	118.3	191.6
1972	4,110.1	3,493.7	616.4	283.2	124.5	208.7
1973	4,590.4	3,886.7	703.6	323.6	141.2	238.8
1974	5,170.0	4,341.1	828.9	370.9	172.3	285.7
1975	5,742.3	4,810.1	932.2	426.6	179.6	326.0
1976	6,209.0	5,190.6	1,018.5	448.0	195.7	374.8
1977	6,796.3	5,615.2	1,181.1	525.4	227.9	427.7
1978	7,525.1	6,207.1	1,318.0	583.9	253.9	480.2
1979	8,371.4	6,888.9	1,482.5	649.8	282.8	549.9
Per capita: 3/						
1969	4,170	4,365	3,331	3,285	3,368	3,371
1970	4,599	4,780	3,788	3,785	3,698	3,851
1971	4,785	4,996	3,872	3,836	3,815	3,960
1972	5,078	5,310	4,070	4,103	3,943	4,104
1973	5,529	5,765	4,511	4,506	4,385	4,597
1974	6,130	6,320	5,293	5,138	5,384	5,453
1975	6,711	6,942	5,730	5,687	5,509	5,917
1976	7,134	7,411	5,991	5,758	5,762	6,436
1977	7,727	7,956	6,795	6,634	6,633	7,098
1978	8,450	8,741	7,305	7,137	7,147	7,612
1979	9,248	9,573	7,986	7,760	7,762	8,399

1/ For subsequent revisions in the statewide data shown here, see table 275.

2/ In millions of dollars.

3/ In dollars.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1980 and April 1981.

Table 278.-- TOTAL MONEY INCOME IN 1975 OF HOUSEHOLDS: SPRING 1976

[Number of households in thousands.]

Total money income	All households					Husband-wife house-holds
	Total	Island		Tenure 1/		
		Oahu	Others	Owner occu-pants	Renter occu-pants	
Total	224	194	50	127	105	169
Under $5,000	30	21	9	8	20	7
$5,000 to $9,999	41	34	8	10	28	22
$10,000 to $14,999 ..	43	33	10	17	22	31
$15,000 to $19,999 ..	40	31	9	22	16	31
$20,000 to $24,999 ..	33	26	7	21	11	28
$25,000 to $29,999 ..	21	18	3	17	3	19
$30,000 to $49,999 ..	31	26	5	27	3	27
$50,000 and over	6	5	1	4	1	5
Median income (dollars)	15,991	16,468	14,309	21,295	10,858	18,911
Mean income (dollars)	18,354	18,869	16,347	23,342	12,881	21,151
Mean size of house-hold	3.45	3.46	3.39	3.81	3.03	3.99
Per capita income (dollars)	5,321	5,447	4,821	6,126	4,257	5,301

1/ Occupiers who paid no cash rent not shown separately.

Source: U.S. Bureau of the Census, "Household Money Income in 1975, by Housing Tenure and Residence, for the United States, Regions, Divisions, and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 108 (November 1977), p. 145.

Table 279.-- TOTAL MONEY INCOME IN 1975 OF FAMILIES AND UNRELATED INDIVIDUALS BY GEOGRAPHIC AREA, AND PERSONS, BY SEX: SPRING 1976

[Numbers of families, unrelated individuals, and persons in thousands.]

Total money income in 1975	Families			Unrelated individuals			Persons 1/	
	State total	Oahu	Other islands	State total	Oahu	Other islands	Male	Female
All income levels .	201	160	41	66	52	14	296	236
Under $2,000 2/	4	3	1	9	6	3	37	67
$2,000 to $3,999	7	5	1	15	10	5	34	50
$4,000 to $5,999	12	9	2	9	7	1	27	38
$6,000 to $7,999	13	10	3	8	7	1	30	32
$8,000 to $9,999	12	10	3	8	7	1	29	20
$10,000 to $11,999 ...	15	11	4	5	4	1	26	12
$12,000 to $14,999 ...	21	15	5	4	4	-	36	9
$15,000 to $19,999 ...	33	25	8	5	4	1	38	6
$20,000 to $24,999 ...	30	24	6	2	2	-	19	2
$25,000 to $49,999 ...	50	42	8	2	1	-	21	2
$50,000 and over	5	5	1	-	-	-		
Median income..dollars	17,770	18,228	15,923	6,180	6,815	3,432	9,489	4,082
Mean income....dollars	19,789	20,218	18,119	7,950	8,577	5,581	11,282	5,182

1/ Reported for persons in households, 14 years old and over as of Spring 1976, with income in 1975. Persons 14 years old and over as of Spring 1976 but without income in 1975 numbered approximately 107,000 (27,000 males and 80,000 females).

2/ For persons, refers to incomes of $1 to $1,999 or loss.

Source: U.S. Bureau of the Census, "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 175-177.

Table 280.-- MEDIAN ANNUAL MONEY INCOME OF FAMILIES AND UNRELATED INDIVIDUALS: 1969-1970 TO 1979-1980

[In dollars. Based on the Hawaii Health Surveillance Program continuing survey of households on six major islands, thought to understate actual income by a significant margin.]

Year 1/	Families 2/			Unrelated individuals 3/
	Total	Military	Civilian	
1969-1970	9,959	7,952	10,817	4,434
1970-1971	11,520	6,907	12,426	5,766
1971-1972	12,348	8,924	13,024	5,848
1972-1973	12,901	9,785	13,476	5,789
1973-1974	13,603	9,993	14,108	5,339
1974-1975	14,228	11,840	14,727	6,305
1975-1976 4/ ..	15,648	12,228	16,311	7,069
1976-1977	16,689	11,929	17,732	7,946
1977-1978	17,726	13,232	18,510	8,220
1978-1979	18,773	13,289	19,724	9,324
1979-1980	18,655	13,121	19,597	9,618

1/ Year received. Based on calendar year tabulations from a continuing survey which requests information on income received in the past 12 months. Tabulations of responses received during 1979, for example, would include data on income received in both 1978 and 1979.

2/ By military status of family head.

3/ Excludes persons living in institutions or barracks.

4/ The question on income was asked only during the last six months of 1976.

Source: Hawaii State Department of Planning and Economic Development, Family Income in Hawaii, 1969 to 1979 (Statistical Report 142, December 31, 1980); Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 281.-- ANNUAL INCOME OF FAMILIES AND UNRELATED INDIVIDUALS: 1979-1980

[Based on the Hawaii Health Surveillance Program continuing survey of households on six major islands, thought to understate actual income by a significant margin.]

Annual money income before taxes	Families 1/			Unrelated individuals 2/
	Total 3/	Military	Civilian	
All levels	239,559	25,596	213,674	72,710
Under $5,000	8,166	335	7,831	11,799
$5,000 to $9,999	37,262	7,408	29,854	18,637
$10,000 to $14,999 ...	36,167	7,354	28,717	13,572
$15,000 to $24,999 ...	64,421	7,083	57,339	9,342
$25,000 and over	64,269	2,487	61,783	4,672
Income not reported ..	29,273	930	28,150	14,687
Sample size	3,678	290	3,385	1,150

1/ By military status of family head.
2/ Excludes persons living in institutions or barracks.
3/ Includes families with military status not reported.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 282.-- FAMILY INCOME POVERTY GUIDELINES: APRIL 6, 1981

[In dollars. These family income levels are poverty threshholds used by the Community Services Administration, effective April 6, 1981, to determine eligibility for Federal programs for the poor.]

Family size	Nonfarm family	Farm family
1	4,980	4,250
2	6,560	5,590
3	8,140	6,930
4 1/	9,720	8,270
5	11,300	9,610
6 2/................	12,880	10,950

1/ Corresponding levels for four-person families were $8,450 and $7,190 on the Mainland and $10,570 and $8,990 in Alaska.

2/ For larger families, add $1,580 for each additional member in a nonfarm family and $1,340 for each additional member in a farm family.

Source: Community Services Administration, "General Characteristics of Community Action Programs; CSA Income Poverty Guidelines " in Federal Register, Vol. 46, No. 43 (March 5, 1981), pp. 15270-15271.

Table 283.-- PERSONS, FAMILIES, AND UNRELATED INDIVIDUALS BELOW SPECIFIED POVERTY LEVELS IN 1975: SPRING 1976

Group	Total (1,000)	Below current U.S. poverty level		Below current Hawaii poverty level 1/	
		Number (1,000)	Percent	Number (1,000)	Percent
Persons 2/	842	67	7.9	83	9.9
Families	201	13	6.4	16	8.2
Unrelated individuals 2/ ..	66	14	21.6	18	26.9
Primary families and primary individuals 3/ ..	244	20	8.3	26	10.6

1/ The official Hawaii thresholds were 115 percent of the national levels.

2/ Excludes persons living in military barracks and inmates of institutions.

3/ A primary family is a family that includes among its members the person or couple who maintains the household. A primary individual is a person maintaining a household while living alone or with nonrelatives only.

Source: U.S. Bureau of the Census, "Consumer Income and Poverty Status in 1975 of families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 179-180; Honolulu Department of Housing and Community Development, Housing and Community Development Research, No. 38, July 1978, pp. 26-29.

Table 284.-- POVERTY POPULATION, HOUSEHOLDS, FAMILIES, AND UNRELATED INDIVIDUALS, FOR COUNTIES: 1974-1975

Island or county and year of survey	Population		Households		Families 1/	Unrelated individuals
	Number	Percent 2/	Number	Percent 3/		
Oahu, 1975	70,515	10.4	21,596	10.3	14,564	16,136
Hawaii County, 1975 ..	14,067	18.8	4,106	19.4	2,959	2,474
Maui County, 1975	6,348	11.5	2,234	12.6	1,402	1,426
Kauai, 1974	3,407	11.5	1,050	12.1	(NA)	(NA)

NA Not available.
1/ Two or more persons.
2/ Of total non-barracks, non-institutional population.
3/ Of total households.
Source: Hawaii Office of Economic Opportunity, Poverty Data from OEO Census Update Survey for Oahu (p. 9), Hawaii County (p. 9), and Maui County (p. 11), and Poverty Data from Kauai Socioeconomic Profile, County of Kauai (p. 13).

Table 285.-- TOP WEALTHHOLDERS: 1962 TO 1972

[Top wealthholders are defined as persons with a gross estate of $60,000 or more. All figures are estimates based on estate tax returns. Money amounts are in millions of dollars.]

Subject	1962	1969	1972
Number of top wealthholders	11,323	36,470	53,700
Total assets	1,908	6,327	7,866
Debts and mortgages 1/ ... Number	9,909	29,301	48,200
Amount	231	1,090	1,369
Net worth	1,677	5,236	6,497

1/ "Debts" in 1962.
Source: U.S. Internal Revenue Service, Statistics of Income - 1962, Personal Wealth (1967), pp. 55-56, Statistics of Income - 1969, Personal Wealth (1973), 57-58, and Statistics of Income - 1972, Personal Wealth Estimated from Estate Tax Returns (1976), table 33.

Table 286.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973

[Data are based on a sample of 228 families and single consumers, and are subject to relatively large standard errors.]

Item	Amount
Number of families in universe	209,000
Average family size	3.5
Average family income:	
Before taxes	$15,665
After taxes	13,055
Housing tenure (percent):	
Homeowner	41.0
With mortgage	29.4
Without mortgage	11.6
Renter	53.3
Other, including not reported	5.7
Automobile ownership:	
At least one automobile owned (percent)	86.2
Average number owned	1.5
Expenditure categories 1/	
Current consumption expenses, total	$9,506.14
Food, total	1,916.09
Food at home, total	1,292.73
Cereals and cereal products	52.94
Bakery products	86.52
Beef	215.27
Pork	90.75
Other meats	54.64
Poultry	63.26
Fish and seafood	99.54
Eggs	30.02
Fresh milk and cream	63.40
Other dairy products	53.86
Fresh fruits	54.21
Fresh vegetables	68.98
Processed fruits	42.00
Processed vegetables	42.95
Sugar and other sweets	32.82
Nonalcoholic beverages	81.36
Fats and oils	30.39
Miscellaneous prepared foods, condiments and seasonings	129.83
Food away from home	590.44
Meals as pay	32.93

Continued on next page.

Table 286.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 - Con.

Item	Amount
Current consumption expenditures (continued)	
Alcoholic beverages	$129.93
Tobacco products and smoking supplies	102.22
Housing, total	3,182.03
Shelter, total	1,917.78
Rented dwellings	1,129.97
Owned dwellings	813.36
Other lodging, excluding vacation	28.45
Fuel and utilities, total	256.40
Gas, total	25.18
Gas, delivered in mains	21.45
Gas, bottled or tank	3.74
Electricity	177.67
Gas and electricity, combined bills	2.08
Fuel oil and kerosene	.59
Other fuels, coal, and wood	.17
Water, garbage, sewerage, trash, and other	50.70
Household operations, total	504.69
Telephone	200.56
Housekeeping and laundry supplies, total	153.06
Laundry and cleaning supplies	50.52
Other household products	51.80
Postage and stationery	50.73
Domestic and other household services	151.06
Housefurnishings and equipment, total	449.17
Household textiles	64.49
Furniture	136.44
Floor coverings	48.60
Major appliances	103.44
Small appliances	12.15
Housewares	24.03
Miscellaneous	60.01
Clothing, total	590.48
Male's, 2 and over	214.17
Female's, 2 and over	324.16
Children's, under 2 years	13.11
Materials, repairs, alterations and services	39.03
Dry cleaning and laundry	63.43
Transportation, total	1,530.72
Vehicle purchases (net outlay)	578.97
Vehicle finance charges	110.52
Vehicle operations, total	758.61
Gasoline and fuels	317.03
Other	441.57
Other transportation	82.62

Continued on next page.

Table 286.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 - Con.

Item	Amount
Current consumption expenditures (continued)	
Health care, total	$513.92
Health insurance	197.68
Expenses not covered by insurance	283.52
Nonprescription drugs and medical supplies	32.72
Personal care	157.96
Recreation, total	834.15
Vacation and pleasure trips, total	372.57
Food	50.91
Alcoholic beverages	5.20
Lodging	30.54
Transportation, total	167.80
Gasoline	1.30
Other transportation	166.50
All expense tours	95.95
Other vacation expenses	22.17
Boats, aircraft, and wheel goods	25.68
Television	43.07
Pets, toys and games	46.33
All other recreation expenses	346.50
Reading	70.37
Education, total	142.50
Private	79.25
Public	56.88
Day and summer camp	6.38
Miscellaneous	272.33
Personal insurance, retirement, and pensions, total	1,325.37
Life, endowment, annuities and income insurance	437.01
Other personal insurance	12.78
Retirement and pensions	875.58
Gifts and contributions	451.82
Income and personal taxes 1/	
Sources of income and personal taxes	
Money income before taxes	15,665.31
Wages and salaries, total	12,873.17
Money wages and salaries, civilians	12,064.09
Union dues	-47.08
Other occupational expenses	-29.23
Rent received as pay	27.36
Meals received as pay	32.93
Money wages and salaries, armed forces	685.82
Quarters and subsistence	139.27

Continued on next page.

Table 286.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 - Con.

Item	Amount
Sources of income and personal taxes (continued)	
Self-employment income, total	$683.73
Net income from own business	600.97
Net income from own farm	82.76
Social security and railroad retirement	361.52
Government retirement, veteran's payments, and unemployment compensation	413.20
Estates, trusts, dividends, rental income, royalties, income from roomers and boarders, total	616.16
Rental income, royalties, income from roomers and boarders	150.31
Income from interest, dividends, estates and trusts	465.85
Income from all other sources, total	717.55
Welfare and public assistance	129.71
Private pensions	55.43
Regular contributions for support	74.72
Other income, including workers' compensation	457.68
Personal taxes, total	-2,610.60
Federal income taxes	-1,990.21
State and local income taxes	-595.92
Personal property and other personal taxes	-24.47
Other financial information 1/	
Other money receipts	561.06
Net change in assets and liabilities 2/	1,109.14
Net change in assets	2,016.72
Net change in liabilities	907.58
Goods and services received without direct expense	99.09
Market value of financial assets	8,199.06
Mortgage principal paid on owned property	-526.71
Estimated market value of owned home 3/	23,725.95
Estimated monthly rental value of owned home 3/	140.14

1/ Averages.
2/ Data represent end-of-values.
3/ Estimates made at the beginning of the survey year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Consumer Expenditure Survey: Integrated Diary and Interview Survey Data, 1972-73. Total Expenditures and Income for the United States and Selected Areas, Bulletin 1992 (1978), table 15, pp. 120-125.

Section 13

PRICES

This section presents indexes of consumer prices for Honolulu, average prices for selected foods, and a comparison of Honolulu family budgets with those in other metropolitan areas. Other statistics on prices are reported in Sections 16, 17, 18, 19, 20, 21, and 23.

In June 1981, the Honolulu all-items consumer price index for all urban consumers stood at 252.8, with the 1967 level equal to 100. The index had increased 11.1 percent in the preceding 12 months, 55.8 percent since June 1976, and 113.3 percent since June 1971. Prices have risen most rapidly since 1967 for gas and electricity (376.1 percent), food at home (191.5 percent), medical care (186.9 percent) and restaurant meals (up 178.7 percent), and least for women's and girls' apparel (up 70.2 percent).

An "intermediate" budget for a four-person family living on Oahu was estimated at $28,488 as of the Autumn of 1980. This family budget was 23 percent higher than the corresponding urban United States average, and was second only to Anchorage among major American metropolitan areas. The "lower" budget was 32 percent above the national figure; the "higher" budget, 29 percent. Oahu-Mainland differentials in the intermediate budget were greatest for rents and personal income taxes and least for food away from home and automobile transportation. An "intermediate" budget for a retired couple in Honolulu came to $9,972 in the Autumn of 1979, 16 percent above the U.S. urban average.

The Honolulu consumer price index has been compiled by the United States Bureau of Labor Statistics since December 1963. This index measures the average change in prices of goods and services purchased by urban families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in the Monthly Labor Review and CPI Detailed Report, issued monthly by BLS. A similar series for Honolulu was maintained by the Hawaii State Department of Labor and Industrial Relations from March 1943 to December 1963, using March 1943 as the base date.

Important changes were made in the consumer price index at the beginning of 1978. The existing index, covering urban wage earner and clerical families and single persons living alone, had been based on spending patterns observed in a 1961 survey and had been issued at three-month intervals. This index was discontinued after June 1978. Beginning in February 1978, two new indexes were published, both based on the findings of a 1972-1973 survey and both issued at two-month intervals. The first of these new indexes covered the same population as the older index, that is, urban wage earner and clerical families and individuals; the second covered all urban consumers. The new indexes were linked to the existing index for December 1977 (174.9) and, like the latter, expressed as a percent of the 1967 annual average. The June 1978 all-items index was 182.1 according to the old coverage and weights, 184.1 based on the previous coverage and revised weights, and 183.9 with the expanded coverage and new weights.

Comparisons of family budgets between Honolulu and various Mainland communities have most recently been made for the Fall of 1979. These data were compiled and published by the U.S. Bureau of Labor Statistics. Similar comparisons go back a number of years, and include a Honolulu-Los Angeles comparison for 1945, Honolulu-Washington comparisons for 1951 and 1955-1980, and a 40-area comparison (later for 25 areas) for various dates since Autumn 1966. Budget costs for a retired couple have been prepared by BLS for Honolulu and the Mainland as of 1966, 1967, and annually since 1969. Cost of living adjustments for Federal employees in Hawaii are based on the Honolulu-Washington comparisons.

In addition to these data, the Bureau of Labor Statistics until 1978 published monthly and annual data on average Honolulu prices for a wide variety of foods, and occasional data on a number of non-food items. The city food price series were suspended after June 1978 and since that time only unofficial estimates have been available.

No composite wholesale price index, comparable to the all-items consumer price index, is available for Hawaii. Average wholesale prices of agricultural products are reported in Statistics of Hawaiian Agriculture, issued by the Hawaii Agricultural Reporting Service, and Honolulu Prices: Wholesale Eggs, Poultry, Pork, Beef and Rice and Wholesale Prices: Wholesale Fresh Fruits and Vegetables, publication of the State Department of Agriculture, Market News Service. Wholesale price statistics of other commodities are less readily available, and in most cases totally lacking.

Data on prices and living costs for the nation as a whole and other areas are summarized in Statistical Abstract of the United States: 1980, Section 15. Long-term trends for Hawaii are traced in Historical Statistics of Hawaii, Section 5.

Table 287.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), FOR HONOLULU: QUARTERLY, 1967 TO 1978

[Unrevised index for urban wage earners and clerical workers.
Annual average for 1967=100.]

Year	Annual average	March	June	September	December
1967	100.0	98.9	99.7	100.6	101.8
1968	103.8	102.8	103.4	104.6	105.7
1969	108.5	107.2	108.2	109.6	111.0
1970	114.2	113.2	114.4	114.9	115.7
1971	118.9	116.7	118.5	121.2	121.1
1972	122.8	122.4	122.2	123.1	124.4
1973	128.3	126.0	127.5	129.6	132.8
1974	141.9	137.7	141.2	145.5	148.5
1975	155.0	151.9	154.3	157.6	159.8
1976	162.8	161.1	162.3	164.0	165.5
1977	171.0	168.3	170.5	173.4	174.9
1978 1/ ..	...	177.9	182.1	...	...

1/ The unrevised consumer price index was discontinued after June 1978. For the revised index, see the following table.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly) and Consumer Price Index-Pacific Cities and U.S. Average (monthly).

Table 288.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER: BIMONTHLY, 1977 TO 1981

[1967 average = 100.]

Type of consumer and year	Annual average	February	April	June	August	October	December
All urban consumers:							
1977	...	...	...	...	...	...	174.9
1978	184.1	178.0	181.4	183.9	185.6	188.8	191.3
1979	204.6	196.2	200.7	204.4	207.2	210.5	214.8
1980	228.5	220.9	227.4	227.5	230.1	234.6	236.1
1981		243.3	250.0	252.8	256.6		
Urban wage earners and clerical workers (revised):							
1977	...	...	...	...	...	...	174.9
1978	184.1	177.5	181.3	184.1	186.0	188.7	191.2
1979	204.5	196.0	200.0	203.6	207.2	211.1	215.5
1980	228.7	221.3	228.4	228.0	229.5	233.5	237.0
1981		243.5	250.2	253.8	256.6		

Source: U.S. Bureau of Labor Statistics, San Francisco, Consumer Price Index - Pacific Cities & U.S. Average (monthly), as corrected.

Table 289.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS,BY COMMODITY GROUPS, FOR HONOLULU: ANNUAL AVERAGES, 1977 TO 1980

[Unless otherwise specified, 1967=100.]

Groups	1977	1978	1979	1980
All items	171.0	184.1	204.6	228.5
Food and beverages	186.9	205.4	231.0	250.6
Food	193.0	212.8	239.8	259.9
Food at home	189.0	210.9	243.2	264.2
Cereals and bakery products	172.8	196.0	216.9	241.2
Meats, poultry, fish, and eggs	185.3	207.2	247.5	263.6
Meats, poultry, and fish	186.9	210.2	252.4	268.9
Dairy products	187.9	203.1	223.9	248.5
Fruits and vegetables	190.7	219.2	264.0	273.0
Other foods at home	214.0	235.7	259.0	294.8
Food away from home	204.5	218.9	236.1	254.4
Alcoholic beverages	136.7	143.4	155.5	171.4
Housing	160.3	171.7	192.7	216.6
Shelter	160.0	170.6	195.1	220.1
Rent, residential	163.5	174.1	187.3	206.1
Other rental costs	182.7	203.0	216.6	250.6
Homeownership	157.6	167.5	195.1	221.3
Fuel and other utilities	175.5	201.0	209.0	243.1
Fuels	202.8	229.0	245.5	309.2
Fuel oil, coal, and bottled gas 1/	(NA)	102.5	117.4	162.8
Gas (piped) and electricity	202.7	229.2	245.5	308.7
Household furnishings and operation	152.7	160.3	172.1	186.3
Apparel and upkeep	152.2	161.3	171.7	183.9
Apparel commodities	149.8	158.7	168.8	180.2
Men's and boys' apparel	150.3	158.7	164.9	177.8
Women's and girls' apparel	139.4	150.6	163.0	169.2
Footwear	151.0	163.7	171.1	182.0
Transportation	159.7	170.4	189.5	223.6
Private transportation	166.1	178.0	198.2	228.1
Public transportation	125.6	128.8	141.7	204.0
Medical care	203.0	221.0	238.7	258.6
Entertainment	170.8	177.7	187.5	201.5
Other goods and services	172.1	183.9	199.1	219.6
Personal care	177.8	189.9	205.9	228.5

Continued on next page.

Table 289.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS,BY COMMODITY GROUPS, FOR HONOLULU: ANNUAL AVERAGES, 1977 TO 1980 --Con.

Commodities and service groups	1977	1978	1979	1980
Commodities	167.6	179.5	201.5	225.0
Food and beverages	186.9	205.4	231.0	250.6
Commodities less food and beverages	151.9	160.0	179.5	203.6
Nondurables less food and beverages ...	164.5	173.5	193.5	225.2
Durables	136.9	143.5	161.6	179.9
Services	177.3	192.3	211.0	235.7
Medical care services	210.6	229.6	247.7	268.8
Special indexes:				
All items less shelter	173.8	187.6	205.3	228.0
All items less medical care	168.9	181.7	202.2	226.2
All items less energy 2/	(NA)	105.2	116.5	128.3
Energy 1/	(NA)	100.4	117.7	156.8
Commodities less food	150.7	158.7	177.9	201.6
Nondurables less food	160.7	169.4	188.5	218.6
Nondurables	177.9	192.1	215.3	240.8
Services less rent	180.9	197.0	216.9	242.9
Services less medical care	171.2	185.3	203.6	228.1

NA Not available.

1/ June 1978=100.

2/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, April 1979 and January 1980 and 1981, and records.

Table 290.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY COMMODITY GROUPS, FOR HONOLULU: ANNUAL AVERAGES, 1977 TO 1980

[Unless otherwise specified, 1967=100.]

Groups	1977	1978	1979	1980
All items	171.0	184.1	204.5	228.7
Food and beverages	186.9	205.3	230.7	252.1
Food	193.0	212.8	239.6	262.0
Food at home	189.0	211.7	242.2	266.8
Cereals and bakery products	172.8	194.8	215.0	238.1
Meats, poultry, fish, and eggs	185.3	210.3	251.0	268.5
Meats, poultry, and fish	186.9	213.6	256.2	274.1
Dairy products	187.9	203.4	223.7	248.2
Fruits and vegetables	190.7	219.1	252.7	277.1
Other foods at home	214.0	235.1	259.0	297.8
Food away from home	204.5	216.8	235.3	253.7
Alcoholic beverages	136.7	142.8	154.1	166.6
Housing	160.3	171.4	191.6	213.3
Shelter	160.0	169.1	192.4	213.6
Rent, residential	163.5	174.1	187.3	206.1
Other rental costs	182.7	204.6	218.4	253.6
Homeownership	157.6	165.5	192.0	213.5
Fuel and other utilities	175.5	201.1	209.2	243.4
Fuels	202.8	229.0	245.9	309.3
Fuel oil, coal, and bottled gas 1/	(NA)	102.4	117.7	164.5
Gas (piped) and electricity	202.7	229.1	245.9	308.9
Household furnishings and operation	152.7	164.0	178.8	195.9
Apparel and upkeep	152.2	159.3	169.2	193.5
Apparel commodities	149.8	156.5	165.5	190.5
Men's and boys' apparel	150.3	161.1	167.3	179.4
Women's and girls' apparel	139.4	139.2	142.6	149.5
Footwear	151.0	156.8	158.4	165.1
Transportation	159.7	170.0	189.6	223.6
Private transportation	166.1	177.4	198.0	229.1
Public transportation	125.6	128.9	141.8	204.7
Medical care	203.0	223.3	239.5	261.3
Entertainment	170.8	182.0	198.4	215.7
Other goods and services	172.1	182.1	197.0	214.4
Personal care	177.8	185.6	199.4	214.8

Continued on next page.

Table 290.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY COMMODITY GROUPS, FOR HONOLULU: ANNUAL AVERAGES, 1977 TO 1980 -- Con.

Commodities and service groups	1977	1978	1979	1980
Commodities	167.6	179.5	201.8	227.1
Food and beverages	186.9	205.3	230.7	252.1
Commodities less food and beverages	151.9	159.8	179.7	206.1
Nondurables less food and beverages	164.5	173.5	195.2	232.5
Durables	136.9	143.1	161.0	178.8
Services	177.3	192.5	210.0	232.4
Medical care services	210.6	232.4	250.1	273.3
Special indexes:				
All items less shelter	173.8	188.2	207.0	232.2
All items less medical care	168.9	181.6	202.1	226.2
All items less energy 2/	(NA)	105.2	116.3	127.9
Energy 1/	(NA)	100.3	118.5	158.4
Commodities less food	150.7	158.5	178.0	203.7
Nondurables less food	160.7	169.3	189.9	224.7
Nondurables	177.9	192.2	216.0	244.9
Services less rent	180.9	197.1	215.7	239.0
Services less medical care	171.2	185.2	202.4	224.3

NA Not available.

1/ June 1978=100.

2/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, April 1979 and January 1980 and 1981, and records.

Table 291.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEXES FOR HONOLULU: DECEMBER 1980

[Percent of all items.]

Expenditure category	CPI-U	CPI-W
All items	100.000	100.000
Food and beverages	19.883	22.967
Food	18.824	21.776
Food at home	13.083	15.685
Cereals and bakery products	1.482	1.933
Meats, poultry, fish, and eggs	4.860	5.927
Meats, poultry, and fish	4.638	5.674
Dairy products	1.369	1.551
Fruits and vegetables	2.211	2.370
Other foods at home	3.161	3.904
Food away from home	5.741	6.091
Alcoholic beverages	1.059	1.191
Housing	46.881	41.035
Shelter	34.749	28.499
Rent, residential	6.866	6.406
Other rental costs	.652	.600
Homeownership	27.231	21.494
Fuel and other utilities	4.892	4.913
Fuels	3.475	3.507
Fuel oil, coal, and bottled gas	.051	.035
Gas (piped) and electricity	3.424	3.472
Household furnishings and operations	7.240	7.623
Apparel and upkeep	4.898	5.180
Apparel commodities	4.471	4.714
Men's and boys'	1.394	1.338
Women's and girls'	1.380	1.330
Infants' and toddlers'	.108	.131
Footwear	.626	.586
Transportation	15.595	18.188
Private	13.689	16.444
Gasoline	4.805	5.924
Public	1.906	1.745
Medical care	4.750	4.818
Entertainment	3.932	3.838
Other goods and services	4.060	3.975
Personal care	1.539	1.590

Continued on next page.

Table 291.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEXES FOR HONOLULU: DECEMBER 1980 -- Con.

Commodity and service group	CPI-U	CPI-W
All items	100.000	100.000
Commodities	56.677	60.812
Food and beverages	19.883	22.967
Commodities less food and beverages	36.795	37.846
Nondurables less food and beverages	15.798	17.636
Durables	20.996	20.209
Services	43.323	39.188
Medical care services	4.085	4.119
Special indexes:		
All items less shelter	65.251	71.501
All items less medical care	95.250	95.182
All items less energy	91.644	90.468
Energy	8.356	9.532
Commodities less food	37.853	39.037
Nondurables less food	16.857	18.827
Nondurables	35.681	40.603
Services less rent	36.457	32.782
Services less medical care	39.238	35.069

Source: U.S. Bureau of Labor Statistics, printout dated January 23, 1981.

Table 292.-- RETAIL FOOD PRICES IN HONOLULU: 1979 TO 1981

[In dollars. This annual survey of food prices in approximately 20 cities across the nation is organized by the Tampa Tribune. Honolulu has been included since 1979.]

Item	Honolulu 1/			21-city average 1981
	1979	1980	1981	
Total	46.91	49.60	57.18	43.63
Milk, 1/2 gallon	2/ 1.19	2/ .99	1.64	1.03
Eggs, large, 1 dozen	.89	.93	1.09	.79
Cheese, 10 ounces	2/ 1.98	2.29	2.55	1.94
Margarine, 1 pound	.67	2/ .79	2/ .79	.61
Bread, 24-ounce loaf	.59	2/ .77	.75	.57
Flour, 5 pounds	2/ .89	1.25	2/ 1.09	1.03
Special K cereal, 12-ounce pkg.	1.42	1.58	2.05	1.44
Sugar, 5 pounds	1.39	2/ 2.19	2/ 1.39	1.58
Instant coffee, 10-ounce jar	2/ 3.89	2/ 4.79	4.99	4.09
Great northern beans, 1 pound	.67	.82	.99	.57
Rice, 2 pounds	1.28	1.62	1.95	1.74
Mayonnaise, 1 quart	1.29	1.67	1.71	1.43
Peanut butter, 18-ounce jar	2/ 1.19	1.49	2.45	2.20
Tuna, 6 1/2-ounce can	.63	2/ .95	2/ .89	.89
Evaporated milk, 13-ounce can	.48	.55	.57	.51
Cling peach halves, 29-ounce can	.83	.89	1.03	.83
Pineapple, 20-ounce can	.67	.77	.83	.77
Ice cream, 1/2 gallon	1.95	2/ 1.69	1.99	1.47
Orange juice concentrate, 6-ounce can	.49	.50	.59	.48
Broccoli spears, frozen, 10-ounce pkg.	.55	2/ .55	.85	.59
Rump roast, 1 pound	3.59	2.89	3.29	2.28
Sirloin steak, 1 pound	3.49	3.39	3.99	2.85
Ground beef, 1 pound	1.99	1.59	1.98	1.42
Pork loin chops, 1 pound	2/ 1.69	1.79	2.79	1.86
Ham, smoked, 1 pound	1.29	1.19	1.49	1.09
Bacon, 1 pound	2/ 1.49	1.39	1.39	1.67
Wieners, 1 pound	2/ 1.29	1.29	2/ 1.49	1.55
Chicken, whole, chilled, 1 pound	.69	.65	.69	.55
Potatoes, 5 pounds	2/ .99	2.45	3.25	1.50
Carrots, 1 pound	2/ .35	.39	.55	.34
Cabbage, 1 pound	2/ .19	2/ .20	.23	.19
Lettuce, 1 head	2/ .78	2/ .39	.62	.46
Bananas, 1 pound	.59	.69	.69	.33
Tomatoes, 1 pound	.79	2/ .69	.59	.61
Oranges, 5 pounds	2.95	1.62	1.75	1.72
Tax	1.81	1.91	2.20	1.72

1/ Honolulu ranked second, second and first in 1979, 1980 and 1981 respectively.

2/ Special sale price.

Source: Honolulu Advertiser, July 4, 1979, pp. A-1 and A-6, July 9, 1980, pp. A-1 and A-4, and July 3, 1981, pp. A-1 and A-3.

Table 293.-- COMPARATIVE FAMILY BUDGETS FOR HONOLULU: 1966 TO 1980

Type of family and date	Cost of budget (dollars)			Percent of U.S. urban average		
	Lower budget	Inter-mediate budget	Higher budget	Lower budget	Inter-mediate budget	Higher budget
URBAN FAMILY OF FOUR PERSONS						
1966: Autumn	...	11,190	...	...	122	...
1967: Spring	7,246	10,902	16,076	122	120	123
1969: Spring	8,135	12,118	18,315	124	120	126
1970: Spring	8,597	12,776	19,311	124	120	125
1971: Autumn	8,990	13,108	19,700	125	119	124
1972: Autumn	9,118	13,617	20,579	123	119	124
1973: Autumn	9,924	14,937	21,901	121	118	120
1974: Autumn	11,383	17,019	25,572	124	119	123
1975: Autumn	12,226	18,694	28,302	128	122	127
1976: Autumn	12,711	19,633	30,086	127	121	127
1977: Autumn	13,280	20,883	31,897	127	122	127
1978: Autumn	14,870	23,099	35,602	129	124	130
1979: Autumn	16,507	25,799	39,689	131	126	131
1980: Autumn	18,480	28,488	44,396	132	123	129
RETIRED COUPLE						
1966: Autumn	...	4,434	...	...	115	...
1967: Spring	3,110	4,429	7,219	116	115	120
1969: Spring	3,401	4,884	7,849	116	115	118
1970: Spring	3,562	5,166	8,312	115	115	117
1971: Autumn	3,875	5,538	8,621	117	116	116
1972: Autumn	3,927	5,633	8,717	114	113	113
1973: Autumn	4,221	6,038	8,844	112	112	110
1974: Autumn	4,801	6,796	9,918	114	112	111
1975: Autumn	5,168	7,339	10,726	115	114	112
1976: Autumn	5,397	7,691	11,318	115	114	113
1977: Autumn	5,711	8,107	11,882	114	113	111
1978: Autumn	6,357	8,987	13,085	115	115	113
1979: Autumn	7,040	9,972	14,508	117	116	115
1980: Autumn	7,776	10,979	15,889	117	116	114

Source: U.S. Bureau of Labor Statistics, Autumn 1980 Urban Family Budgets and Comparative Indexes for Selected Urban Areas (release USDL: 81-195, April 22, 1981), Three Budgets for a Retired Couple, Autumn 1980 (release USDL: 81-384, August 10, 1981), and corresponding releases for earlier years.

Table 294.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1980

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	18,480	28,488	44,396	132	123	129
Total consumption	13,899	19,546	27,206	124	115	117
Food	5,544	6,952	8,863	128	125	126
At home	4,996	6,070	7,295	134	130	131
Away from home	548	882	1,568	91	97	107
Housing 2/	3,718	5,863	9,205	143	115	119
Shelter 3/	2,925	4,563	6,570	149	114	122
Renter costs 4/	2,925	3,681	5,383	149	145	135
Homeowner costs 5/	-	4,857	6,779	-	108	120
Housefurnishings & operations	793	1,300	2,330	122	117	111
Transportation 6/	1,162	2,181	2,901	100	103	105
Automobile owners	1,646	2,181	2,901	106	98	105
Clothing	997	1,371	1,925	110	106	102
Personal care	410	540	764	116	115	114
Medical care 7/	1,394	1,400	1,459	107	107	107
Other family consumption 8/	674	1,239	2,089	113	112	114
Other items 9/	663	1,047	1,807	114	109	112
Social security & disability payments	1,202	1,655	1,655	136	116	103
Personal income taxes	2,716	6,240	13,728	203	165	173

See footnotes on next page.

Table 294.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1980 -- Con.

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked first in total budget costs at the higher level and second at the intermediate and lower levels (where Anchorage ranked first).

2/ Housing includes shelter, housefurnishings and household operations. The higher budget also includes an allowance for lodging away from Oahu.

3/ The average costs of shelter were weighted by the following proportions: lower budget, all families living in rented dwellings; intermediate budget, 25 percent in rented dwellings; higher budget, 15 percent renters.

4/ Includes average contract rent, heating fuel, gas, electricity, water, specified equipment, and insurance on household contents.

5/ Includes interest and principal payments plus taxes; insurance on house and contents; water, refuse disposal, heating fuel, gas, electricity, and specified equipment; and home repair and maintenance costs.

6/ Based on 65 percent of the lower budget families and all of the intermediate and higher budget families owning automobiles.

7/ Based on 30 percent of all families paying full cost of medical insurance 26 percent paying half cost, and 44 percent covered by noncontributory insurance plans (paid by employer).

8/ Includes reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous expenditures.

9/ Includes gifts and contributions, life insurance and occupational expenses.

Source: U.S. Bureau of Labor Statistics, Autumn 1980 Urban Family Budgets and Comparative Indexes for Selected Urban Areas (release USDL: 81-195, April 22, 1981).

Table 295.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1980

[For a retired husband and wife, age 65 years or over. Excludes personal income taxes.]

Item	Cost of budget (dollars)			Percent of U.S urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	7,776	10,979	15,889	117	116	114
Total family consumption	7,441	10,319	14,714	117	116	114
Food	2,734	3,560	4,543	131	128	130
At home	2,583	3,236	3,895	135	131	132
Away from home	151	324	648	93	106	120
Housing 2/	2,296	3,427	5,363	106	110	110
Shelter 3/	1,618	2,056	2,983	99	103	105
Renter costs 4/	2,198	3,038	4,169	146	154	139
Homeowner costs 5/	1,232	1,527	2,475	72	76	89
Housefurnishings, operations	678	1,371	2,234	127	124	119
Transportation 6/	706	1,168	1,803	145	123	103
Clothing	249	411	590	106	104	97
Personal care	203	296	433	110	110	110
Medical care	959	967	975	102	102	102
Other family consumption 7/	294	490	1,007	115	116	120
Other items 8/	335	660	1,175	117	116	113

Footnotes and source on next page.

Table 295.-- ANNUAL BUDGETS FOR THRE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1979 -- Con.

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked second at the lower level, third at the intermediate level, and fourth at the higher level.

2/ Housing includes shelter, housefurnishings and household operations. The higher budget also includes an allowance for lodging away from Oahu.

3/ The average costs of shelter were weighted by the following proportions: lower budget, 40 percent living in rented dwellings; intermediate budget, 35 percent in rented dwellings; higher budget, 30 percent in rented dwellings.

4/ Includes average contract rent, heating fuel, gas electricity, water, specified equipment, and insurance on household contents.

5/ Includes property taxes; insurance on house and contents; water, refuse disposal, heating fuel, gas, electricity, and specified equipment; and home repair and maintenance costs. Assumes all mortgage payments have been completed prior to retirement.

6/ Based on 45 percent of the lower budget families, 60 percent of the intermediate budget families, and all of the higher budget families owning automobiles.

7/ Includes reading, recreation, tobacco products, alcoholic beverages, and miscellaneous expenditures.

8/ Includes gifts and contributions. The higher level also includes an allowance for life insurance.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Three Budgets for a Retired Couple, Autumn 1980 (release, USDL: 81-384, August 10, 1981).

Table 296.-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.: 1981

Allowance category 1/	Oahu	Kauai	Molokai	Maui and Lanai	Hawaii
Indexes 2/					
Local retail:					
Private housing	117.0	117.6	116.3	117.2	109.5
Federal housing	110.6	114.2	110.3	111.9	106.8
Commissary, PX:					
Private housing	105.7	116.2	...	...	...
Federal housing	99.4	112.7	...	...	...
Allowance rates 3/					
Local retail:					
Private housing	17.5	17.5	17.5	17.5	10.0
Federal housing	10 0	15.0	10.0	12.5	7.5
Commissary, PX:					
Private housing	5.0	15.0	...	...	...
Federal housing	0	12.5	...	...	...

1/ Based on access to military commissary and exchange facilities and type of housing occupied. "Local retail" refers to Federal employees who purchase goods and services from private retail establishments; "commissary, PX," to Federal employees who have unlimited access to and who use military commissary and exchange facilities. "Private housing" refers to Federal employees who occupy housing units that are privately owned or rented; "Federal housing," to Federal employees who occupy units owned or leased by a Federal agency.

2/ Washington, D.C., living costs=100. Based on a survey of comparative costs for Federal employees in 1981.

3/ Authorized allowance rate, expressed as a percentage differential, effective September 6, 1981.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost of Living Allowance for Guam and the State of Hawaii and Post Differentials for Eligible Areas," Federal Personnel Manual System, FPM Letter 591-40 (September 8, 1981).

Section 14

ELECTIONS

This section presents data on the number and characteristics of election districts, registered voters, votes cast, campaign expenditures, elected officials, and legislative bills.

Almost 403,000 persons were registered to vote in the general election of November 4, 1980, and more than 318,000 actually voted. The number voting amounted to 45 percent of the 657,000 Hawaii residents of voting age at that time. The latter figure included numerous aliens, inmates of mental and penal institutions, and members of the armed forces and their dependents, groups that are either ineligible or unlikely to vote in Island elections. Among registered voters, females slightly outnumbered males and Democrats were far more numerous than Republicans. Campaign expenditures for the 1980 primary and general elections (other than the presidential race) exceeded $9,600,000.

A constitutional convention was convened on July 5, 1978. All of the constitutional amendments proposed by the convention were subsequently approved by the electorate.

Hawaii has 2 Congressional, 8 Senatorial, 27 Representative, and 12 Councilmanic districts. It also contains 15 Soil Conservation districts, 32 Neighborhood Board areas, and 241 election precincts.

Elective offices in Hawaii include the President, 2 U.S. Senators, 2 U.S. Representatives, the Governor, 25 State Senators, 51 State Representatives, and various county officials. The minimum voting age is 18 years.

The 1981 State Legislature, with 76 members, included 62 males, 28 persons under 40 years of age, 36 persons of Japanese ancestry, 12 persons born in places other than Hawaii, and 56 Democrats.

In its 1980 session, the State Legislature considered 5,970 bills; 317 were passed and 309 became law. The Legislature also considered 1,236 resolutions, of which 766 were approved.

The official results of primary, general, and special elections are published by the Office of the Lieutenant Governor. Additional information is often available from the various County clerks. Earlier figures for Hawaii appear in Historical Statistics of Hawaii, Section 24. National statistics appear in the Statistical Abstract of the United States: 1980, Section 16.

Table 297.-- NUMBER OF ELECTION DISTRICTS, BY COUNTIES: JANUARY 1981

Kind of district	State total	Hawaii	Maui	Kalawao	Honolulu	Kauai
U.S.:						
Congress	2	(1/)	(1/)	(1/)	(2/)	(1/)
Soil Conservation ...	15	5	5	-	3	2
State:						
Senate	8	1	1		5	1
Representative	27	4	2		20	1
Board of Education ..	2	(1/)	(1/)	(1/)	1	(1/)
City and County:						
Council	12	1	1	-	9	1
Neighborhood Board ..	32	-	-	-	32	-
Precincts	241	52	30	1	145	13

1/ Part of Congressional District 2 and School Board District II.
2/ Includes all of Congressional District 1 and part of District 2.
Source: Office of the Lieutenant Governor, information provided February 6, 1981.

Table 298.-- POPULATION OF VOTING AGE AND PERCENT VOTING: NOVEMBER 1960 TO 1980

[Resident population 20 years old and over through 1970 and 18 years and over in 1972 and later years. Includes armed forces stationed in Hawaii.]

Year (Nov.)	Persons of voting age	Percent casting votes		Subject	Persons of voting age
		For Presidential Electors	For U.S. Representatives		
1960	371,000	49.8	49.2	Age, 1980:	
1962	390,000	...	49.9	18 to 24 years	146,000
1964	404,000	51.3	56.8	25 to 44 years	261,000
1966	417,000	...	49.9	45 to 64 years	176,000
1968	439,000	53.8	55.4	65 years and over	74,000
1970	473,000	...	44.0		
1972	536,000	50.4	51.3	Race, 1980:	
1974	574,000	...	45.2	White	244,000
1976	605,000	48.1	48.5	Black	9,000
1978	631,000	...	40.1	Other	404,000
1980	657,000	45.4	42.8		

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age for States; November 1980," Current Population Reports, Series P-25, No. 879, March 1980, and Statistical Abstract of the United States: 1980, pp. 516-517.

Table 299.-- RESIDENT POPULATION AND REGISTERED VOTERS, BY CONGRESSIONAL DISTRICTS: 1980

Congressional district 1/	Resident population: April 1	Registered voters: November	Percent increase, 1970-1980 2/		Percent deviation from State average, 1980	
			Population	Regist. voters	Population	Regist. voters
State ..	965,000	402,795	25.3	38.1	...	...
First	394,423	176,231	8.9	17.7	-18.3	-12.5
Second	570,577	226,564	39.9	59.7	+18.3	+12.5

1/ The First District consists of the area southwest of the crest of the Koolau Mountains, between Kalauao Stream and Makapuu Point, and includes Aiea, Hickam Housing, and Honolulu. The Second District includes the remainder of Oahu and the Counties of Hawaii, Kalawao, Kauai, and Maui. See HRS, 1976, section 18-1.

2/ Based on 1980 boundaries. The boundary between the First and Second Districts was shifted in 1972 from Aiea Stream to Kalauao Stream, thus transferring Aiea from the Second District to the First.

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Advance Reports, PHC80-V-13, table 3, and Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for November 3, 1970 and November 4, 1980.

Table 300.-- ESTIMATED POPULATION OF VOTING AGE, BY CONGRESSIONAL DISTRICTS: JULY 1, 1980

District	Population 18 and over
State total	692,000
1	305,000
2	387,000

Source: U.S. Bureau of the Census, "Estimates of the Voting Age Population for 1980," Federal Register, Vol. 46, No. 65, April 6, 1981, pp. 20578-20580.

Table 301.-- CITIZENS 18 YEARS OLD AND OVER REPORTED REGISTERED AND VOTED, BY RACE, FOR THE CITY AND COUNTY OF HONOLULU: NOVEMBER 1976

[Based on a sample of 2,291 households and subject to considerable sampling variation.]

Subject	All races	White	Japanese	Others 1/
Population 18 and over	490,248	167,865	146,096	176,287
U.S. citizen	447,266	164,132	136,053	147,081
Reported registered	305,679	110,894	98,580	96,205
In this jurisdiction	272,496	85,551	96,278	90,667
Reported voted 2/	276,675	97,753	91,232	87,690
In this jurisdiction	254,997	80,545	89,839	84,613
Not a U.S. citizen	42,982	3,733	10,043	29,206
Percent of U.S. citizens reported--				
Registered	68.3	67.6	72.5	65.4
In this jurisdiction	60.9	52.1	70.8	61.6
Voted 2/	61.9	59.6	67.1	59.6
In this jurisdiction	57.0	49.1	66.0	57.5

1/ Separately reported in source for Black, American Indian, Chinese, Filipino, Korean, and all others; see The State of Hawaii Data Book 1979, table 217, p. 239.

2/ The number of voters in this jurisdiction, based on election returns rather than survey results, was 234,088, or 52.3 percent of the citizens 18 years of age and older.

Source: U.S. Bureau of the Census, "Registration and Voting in November 1976 -- Jurisdictions Covered by the Voting Rights Act Amendments of 1975," Current Population Reports, Special Studies, Series P-23, No. 74, September 1978, pp. 6, 15, and 22.

Table 302.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY, GENERAL, AND SPECIAL ELECTIONS: 1970 TO 1980

Type and date of election	Registered voters 1/			Votes cast 2/	
	Both sexes	Male	Female	Number	Percent of reg. voters
Primary elections:					
1970: Oct. 3	282,470	...	...	202,401	71.7
1972: Oct. 7	326,906	...	...	203,160	62.1
1974: Oct. 5	333,527	...	...	235,982	70.8
1976: Oct. 2	353,249	175,276	177,973	251,457	71.2
1978: Oct. 7	387,673	190,796	196,877	289,029	74.6
1980: Sept. 20 ...	384,858	186,982	197,876	264,041	68.6
General elections:					
1970: Nov. 3	291,681	146,630	145,051	247,740	84.9
1972: Nov. 7	337,837	169,896	167,941	286,593	84.8
1974: Nov. 5	343,404	171,072	172,332	272,545	79.4
1976: Nov. 2	363,045	180,265	182,780	309,025	85.1
1978: Nov. 7	395,262	194,412	200,850	292,690	74.0
1980: Nov. 4	402,795	195,804	206,991	318,026	79.0
Special elections: 3/					
1978: May 20	344,952	169,787	175,165	119,250	34.6
1980: Nov. 4	54,083	24,465	29,618	42,848	79.2

1/ Data by sex not available for primary elections before 1976.

2/ Number voting excludes unregistered votes cast (overseas and nonresident).

3/ Constitutional convention of 1978; Office of Hawaiian Affairs, 1980.

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election.

Table 303.-- PARTY OF VOTES CAST IN PRIMARY ELECTIONS: 1970 TO 1980

Primary election	Total votes cast	Democratic	Republican	Other parties	Nonpartisan	Invalidated
1970 1/ ..	202,401	159,135	43,253	-	13	-
1972 2/ ..	203,160	...	...	...	...	...
1974	235,982	199,992	35,867	123	-	-
1976	251,457	215,037	35,495	568	357	-
1978 3/ ..	289,029	262,531	25,642	211	548	-
1980	264,041	250,226	10,628	1,089	1,881	217

1/ Earliest year available.
2/ Not tabulated by party.
3/ Party data add to 288,932 rather than reported total.

Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election for years shown.

Table 304.-- PARTY OF VOTERS, BY COUNTIES: PRIMARY ELECTION, SEPTEMBER 20, 1980

Party	State total	Hawaii County	Maui County	City & Co. of Honolulu	Kauai County
Registered voters ...	384,858	43,843	35,700	284,013	21,302
Votes cast	264,041	29,658	20,346	196,283	17,754
Democrat	250,226	27,513	18,065	187,115	17,533
Republican	10,628	1,783	1,922	6,755	168
Libertarian	1,089	119	142	778	50
Nonpartisan	1,881	215	166	1,500	-
Invalidated	217	28	51	135	3
Not voting	120,817	14,185	15,354	87,730	3,548

Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election, Saturday, September 20, 1980, State of Hawaii, pp. 91-104.

Table 305.-- PARTY OF VOTERS REGISTERED FOR GENERAL ELECTIONS: 1970 TO 1980

General election	All registered voters	Democratic	Republican	Other parties	Nonpartisan	Nonaffiliated
1970 1/	291,681	133,479	36,787	-	-	121,415
1972	337,837	171,374	46,890	-	-	119,573
1974	343,404	190,270	47,815	18	154	105,147
1976	363,045	215,321	41,849	138	273	105,464
1978	395,262	241,456	37,663	400	552	115,191
1980 2/	402,795	...	...	...	...	...

1/ Earliest year available.

2/ Not available by party. The requirement for stating party preference was abolished by Act 139, SLH 1979 (HRS, sec. 12-31), effective June 1, 1979.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for 1970 (p. 79), 1972 (p. 98), 1974 (p. 89), 1976 (p. 134), 1978 (p. 157), and 1980 (p. 11).

Table 306.-- PRECINCTS, REGISTERED VOTERS, AND VOTES CAST, BY ISLANDS: GENERAL ELECTION, 1980

Island	Number of precincts	Registered voters	Votes cast 1/	
			Number	Percent
State total.................	241	402,795	318,026	79.0
Hawaii	52	46,451	38,394	82.7
Maui	25	33,339	24,750	74.2
Lanai	1	877	716	81.6
Molokai:				
Kalawao	1	2,735	1,802	65.9
Rest of Molokai	4	128	86	67.2
Oahu	145	297,533	234,410	78.8
Kauai	12	21,566	17,800	82.5
Niihau	1	166	68	41.0
Northwestern Hawaiian Islands ...	-	-	-	...

1/ Excludes 59 unregistered and nonresident overseas ballots.

Source: Office of the Lieutenant Governor, information provided February 13, 1980.

Table 307.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1980

[Excludes persons registered for only the Office of Hawaiian Affairs election and not for the regular primary or general elections.]

Election and county	Registered voters			Votes cast 1/		Percent of civilian population 2/	
	Both sexes	Male	Female	Number	Percent of reg. voters	Regis- tered	Voting
PRIMARY ELECTION							
State total ..	384,858	186,982	197,876	264,041	68.6	42.6	29.2
Hawaii	43,843	21,465	22,378	29,658	67.6	47.6	32.2
Maui	35,700	17,681	18,019	20,346	57.0	50.1	28.5
Honolulu	284,013	137,253	146,760	196,283	69.1	40.5	28.0
Kauai	21,302	10,583	10,719	17,754	83.3	54.7	45.6
GENERAL ELECTION							
State total ..	402,795	195,804	206,991	318,026	79.0	44.6	35.2
Hawaii	46,451	22,816	23,635	38,394	82.7	50.5	41.7
Maui	37,079	18,344	18,735	27,354	73.8	52.0	38.4
Honolulu	297,533	143,834	153,699	234,410	78.8	42.4	33.4
Kauai	21,732	10,810	10,922	17,868	82.2	55.8	45.9

1/ Excludes 59 unregistered and nonresident overseas ballots cast in general election.

2/ Based on preliminary April 1, 1980 data in DPED Statistical Report 141.

Source: Office of the Lieutenant Governor, Result of Votes Cast, for each election.

Table 308.-- POPULARLY ELECTED OFFICIALS: 1971 AND 1981

Type of official or body	1971	1981
Federal:		
Executive Branch	2	2
Congress	4	4
Soil Conservation Districts 1/	45	45
State:		
Executive Branch	2	2
Legislature	76	76
Board of Education	11	13
Office of Hawaiian Affairs	-	9
City and County:		
Executive Branch	4	4
Council	34	34
Neighborhood Boards	-	416
Prosecuting Attorney	1	3

1/ There are actually 75 directors, 5 from each soil conservation district. However, only 3 of the 5 directors from each district are elected. The remaining 2 are appointed. Therefore, a total of only 45 elected directors.

Source: Office of the Lieutenant Governor, information provided February 6, 1981.

Table 309.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, SEPTEMBER 20, 1980

Office, party and candidate	Votes
U.S. SENATOR	
Democrat:	
Daniel K. Inouye	198,468
Kamuela Price	15,361
John Paul Fritz	12,929
Republican:	
Cooper Brown	3,219
Lawrence I. Weisman	2,586
Dan Dew	1,854
E.F. Bernier-Nachtwey	584
Libertarian:	
Bud Shasteen	684
REPRESENTATIVE TO CONGRESS, DISTRICT 1	
Democrat:	
Cec Heftel	73,162
Charles M. Campbell	26,024
Romey Juan Ramolete, Jr.	2,031
Republican:	
Aloma Keen Noble	3,099
Libertarian:	
Rockne H. Johnson	298
REPRESENTATIVE TO CONGRESS, DISTRICT 2	
Democrat:	
Daniel K. Akaka	113,552
Libertarian	
D. Gordon Smith	384
MAYOR, CITY AND COUNTY OF HONOLULU	
Democratic:	
Eileen R. Anderson	89,224
Frank F. Fasi	87,547
Hiram K. Kamaka	7,044
Larry Beck	463
Republican:	
Jack Schweigert	2,143
Theodore W. Gibson	1,983
Irving Melnick	702

Continued on next page.

Table 309.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, SEPTEMBER 20, 1980 -- Con.

Office, party and candidate	Votes
MAYOR, CITY AND COUNTY OF HONOLULU -- Con.	
Libertarian:	
Jan E. Seavey	579
Non-partisan:	
William N. Leialoha	870
Homer Price	324
MAYOR, COUNTY OF HAWAII	
Democrat:	
Herbert T. Matayoshi	15,922
Robert S. Kaplan	4,270
James Silva	3,476
Republican:	
Abel J. Ferreira, Sr.	1,097
Non-partisan:	
Tomas Nikolai Belsky	157
MAYOR, COUNTY OF KAUAI	
Democrat:	
Eduardo E. Malapit	8,963
Joann A. Yukimura	8,123
Republican:	
John Sousa	89

Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election, Saturday, September 20, 1980, State of Hawaii.

Table 310.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1970 TO 1980

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
PRESIDENT						
1972	270,274	McGovern	101,409	Nixon	168,865	-
1976	291,301	Carter	147,375	Ford	140,003	3,923
1980	303,287	Carter	135,879	Reagan	130,112	37,296
U.S. SENATOR						
1970 1/	240,760	Heftel	116,597	Fong	124,163	-
1974	250,221	Inouye, D. ..	207,454	None	-	42,767
1976	302,092	Matsunaga ...	162,305	Quinn	122,724	17,063
1980	288,006	Inouye, D. ..	224,485	Brown	53,068	10,453
REPRESENTATIVE TO CONGRESS, DISTRICT 1						
1970 1/	117,175	Matsunaga ...	85,411	Cockey	31,764	-
1972	134,964	Matsunaga ...	73,826	Rohlfing ...	61,138	-
1974	120,617	Matsunaga ...	71,552	Paul	49,065	-
1976	137,602	Heftel	60,050	Rohlfing ...	53,745	23,807
1978	115,412	Heftel	84,552	Spillane ...	24,470	6,390
1980	123,181	Heftel	98,256	Noble	19,819	5,106
REPRESENTATIVE TO CONGRESS, DISTRICT 2						
1970 1/	91,038	Mink	91,038	None	-	-
1972	139,899	Mink	79,856	Hansen	60,043	-
1974	138,810	Mink	86,916	Coray	51,894	-
1976	156,099	Akaka	124,116	Inouye, H. .	23,917	8,066
1978	137,957	Akaka	118,272	Isaak	15,697	3,988
1980	157,380	Akaka	141,477	None	-	15,903
GOVERNOR						
1970 1/	239,061	Burns	137,812	King	101,249	-
1974	249,650	Ariyoshi ...	136,262	Crossley ...	113,388	-
1978	281,587	Ariyoshi ...	153,394	Leopold	124,610	3,583

Continued on next page.

Table 310.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1970 TO 1980 -- Con.

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
MAYOR OF HONOLULU						
1972	215,221	Fasi	111,376	Anderson, D.	103,845	-
1976	224,665	Fasi	137,911	Clement	82,595	4,159
1980	219,408	Anderson, E.	152,240	Schweigert .	58,155	9,013

1/ Final tallies, corrected from preliminary 1970 counts reported in previous editions of the Data Book (1971, table 39; 1972, table 52; 1973, table 69; 1974, table 66; 1975, table 183; 1976, table 188; 1977, table 208; and 1978, table 237) and in Historical Statistics of Hawaii, table 24.6.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for 1970-1980.

Table 311.-- NEIGHBORHOOD BOARD ELECTIONS, OAHU: 1975 TO 1981

[First neighborhood board formed May 1975.]

Year	Number of boards		Board seats elected	Voters (ballots cast)	Votes cast 1/
	In operation, Dec. 31	Holding elections 2/			
1975	6	6	110	1,767	5,702
1976	12	8	118	24,308	58,787
1977	27	22	316	11,333	34,657
1978	28	3	48	10,967	26,156
1979 3/ ..	28	25	366	12,495	38,714
1981 4/ ..	28	28	416	48,745	178,042

1/ 1976 total incomplete.

2/ One board held two elections in 1976.

3/ First use of mail-in ballots; 898 ballots cast and 2,555 votes cast.

4/ First simultaneous election, May 1, 1981; all mail-in ballots, 294,735 ballots mailed out.

Source: Neighborhood Commission, City and County of Honolulu, records.

Table 312.-- VOTES CAST FOR MAJOR OFFICES BY COUNTIES: GENERAL ELECTION, 1980

Office, candidate and party 1/	State total	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai	Overseas votes
PRESIDENT						
Carter (D)	135,879	17,630	12,674	96,472	9,081	22
Reagan (R)	130,112	14,247	10,359	99,596	5,883	27
Anderson, J. (I)	32,021	3,091	2,237	25,331	1,352	10
Clark (L)	3,269	535	338	2,259	137	-
Commoner (C)	1,548	293	99	1,036	120	-
Hall (H)	458	65	44	301	48	-
U.S. SENATOR						
Inouye (D)	224,485	26,495	18,513	166,634	12,808	35
Brown (R)	53,068	6,386	4,091	40,681	1,898	12
Shasteen (L)	10,453	1,349	946	7,764	389	5
REPRESENTATIVE TO CONGRESS, DISTRICT 1						
Heftel (D)	98,256	-	-	98,237	-	19
Noble (R)	19,819	-	-	19,805	-	14
Johnson (L)	5,106	-	-	5,009	-	7
REPRESENTATIVE TO CONGRESS, DISTRICT 2						
Akaka (D)	141,477	29,562	20,314	77,761	13,832	8
Smith (L)	15,903	3,470	2,428	9,080	923	2
MAYOR, CITY AND CO. OF HONOLULU						
Anderson, E. (D)	152,240	-	-	152,240	-	-
Schweigert (R)	58,155	-	-	58,155	-	-
Leialoha (N)	5,595	-	-	5,595	-	-
Seavey (L)	3,418	-	-	3,418	-	-
MAYOR, COUNTY OF HAWAII						
Matayoshi (D)	21,603	21,603	-	-	-	-
Ferreira (R)	11,774	11,774	-	-	-	-

Continued on next page.

Table 312.-- VOTES CAST FOR MAJOR OFFICES BY COUNTIES: GENERAL ELECTION, 1980 -- Con.

Office, candidate and party 1/	State total	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai	Overseas votes
MAYOR, COUNTY OF KAUAI						
Malapit (D)	10,296	-	-	-	10,296	-
Sousa (R)	4,552	-	-	-	4,552	-

1/ D, Democrat; R, Republican; I, Independent; L, Libertarian; C, Citizens; H, Communist; N, nonpartisan.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, Tuesday, November 4, 1980, State of Hawaii.

Table 313.-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES: NOVEMBER 4, 1980

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total 1/	54,083	24,465	29,618	42,848	79.2
Hawaii	7,446	3,382	4,064	6,156	82.6
Maui	6,336	2,972	3,364	4,760	75.1
Honolulu	37,346	16,708	20,638	29,499	78.9
Kauai	2,955	1,403	1,552	2,433	82.3

1/ Based on 1980 population estimates by race from the Hawaii Health Surveillance Program (shown in The State of Hawaii Data Book 1981, table 14), 30.8 percent of the Hawaiian and Part Hawaiian population registered for the OHA special election and 24.4 percent cast OHA ballots. Participation in this special election was limited to persons with Hawaiian blood, numbering approximately 175,453--including those ineligible because of age--in 1980.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii, Tuesday, November 4, 1980, pp. 177 and 248.

Table 314.-- CAMPAIGN EXPENDITURES: 1980 ELECTIONS

[In thousands of dollars.]

Election and race	All candidates	Democrats	Republicans	All others 1/
PRIMARY 2/				
All races reported	4,578	4,218	355	5
U.S. Senator	82	62	20	-
U.S. Representative	204	201	3	-
State Senator	601	484	117	(Z)
State Representative	1,121	994	126	1
Mayor	1,818	1,812	6	(Z)
County Council	504	463	38	3
Prosecuting Attorney	246	201	45	-
GENERAL 3/				
All races reported	5,046	3,831	758	457
U.S. Senator	58	50	8	-
U.S. Representative	72	68	4	-
State Senator	863	629	233	(Z)
State Representative	1,608	1,352	251	5
Mayor	1,111	1,098	13	(Z)
County Council	637	506	119	11
Prosecuting Attorney	257	128	129	-
Board of Education	109	-	-	109
Office of Hawaiian Affairs ..	331	-	-	331

Z Less than $500.

1/ Libertarian or nonpartisan.

2/ Expenditures from January 1, 1980 through election day, September 20, 1980. No information was received from 3 U.S. Senate candidates (1 Democrat, 1 Republican, and 1 Libertarian) and 3 U.S. House Candidates (1 Democrat and 2 Libertarians).

3/ Expenditures from January 1, 1980 through election day, November 4, 1980. No information was received from 1 U.S. Senate candidate and 2 U.S. House candidates (all Libertarians).

Source: State Campaign Spending Commission, records.

Table 315.-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE: 1971 TO 1981

Regular session	House of Representatives				Senate			
	Total	Democrats	Republicans	Vacant seats	Total	Democrats	Republicans	Vacant seats
1971 ..	51	34	17	-	25	16	8	1
1973 ..	51	35	16	-	25	17	8	-
1975 ..	51	35	16	-	25	18	7	-
1977 1/	51	41	10	-	25	18	7	-
1979 ..	51	42	9	-	25	18	7	-
1981 ..	51	39	12	-	25	17	8	-

1/ Forty Democrats and 11 Republicans were elected to the House of Representatives in the general election of November 1976. In January 1977, however, one Republican changed his affiliation to Democrat.

Source: Session Laws of Hawaii, 1969-1979; Office of the Lieutenant Governor, records.

Table 316.-- COMPOSITION OF CONSTITUTIONAL CONVENTIONS: 1894 TO 1978

Characteristic	1894 1/	1950	1968	1978
Number of delegates	38	63	82	102
Percent Oahu residents	68.4	57.1	76.8	76.5
Percent born in Hawaii	52.8	82.0	84.0	69.6
Percent under 45 years of age ..	44.4	60.0	50.0	62.7
Percent males	100.0	92.1	90.2	70.6
Race (percent):				
Hawaiian, part Hawaiian	15.8	14.3	9.8	14.7
Caucasian	84.2	47.6	28.0	32.4
Japanese	-	30.2	45.1	40.2

1/ Includes 3 persons who served only partial terms.

Source: Robert C. Schmitt, "Demographic Characteristics of Hawaii's Constitutional Conventions" (unpublished paper, January 29, 1980).

Table 317.-- COMPOSITION OF THE 1981 HAWAII STATE LEGISLATURE

Subject	House of Representatives			Senate		
	Total	Democrats	Republicans	Total	Democrats	Republicans
All members	51	39	12	25	17	8
Island of residence:						
Hawaii	5	4	1	3	2	1
Maui	4	3	1	2	2	-
Lanai	-	-	-	-	-	-
Molokai	-	-	-	-	-	-
Oahu	39	29	10	19	12	7
Kauai	3	3	-	1	1	-
Niihau	-	-	-	-	-	-
Year born:						
1920 or earlier	1	-	1	4	3	1
1921 to 1930	12	8	4	11	5	6
1931 to 1940	10	6	4	7	6	1
1941 to 1950	20	19	1	1	1	-
1951 or later	8	6	2	2	2	-
Sex:						
Male	41	33	8	21	16	5
Female	10	6	4	4	1	3
Ethnic stock:						
Caucasian, except Portuguese	8	5	3	5	3	2
Chinese	1	1	-	2	1	1
Filipino	3	3	-	1	1	-
Japanese	24	23	1	12	9	3
Negro	-	-	-	1	1	-
Portuguese	1	-	1	1	-	1
Other (unmixed) 1/ ..	-	-	-	-	-	-
Mixed: Part-Hawaiian	7	4	3	3	2	1
Mixed: Non-Hawaiian	7	3	4	-	-	-
Place of birth:						
Hawaii	39	31	8	22	15	7
Mainland U.S.	9	5	4	3	2	1
U.S. terr. or poss. .	-	-	-	-	-	-
Foreign country	3	3	-	-	-	-

1/ Hawaiian, Korean, Puerto Rican, Samoan, or other ethnic stock.

Source: Office of the Lieutenant Governor, data provided February 6, 1981.

Table 318.-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION: 1979 TO 1981

Action	1979: regular 1/	1980: regular 2/	1981	
			Regular	Special
House bills:				
Carried over from previous year	-	1,605	-	-
Introduced	1,759	1,295	1,942	20
Enacted	154	201	185	18
Vetoed	9	4	24	-
Became law	145	197	169	18
Senate bills:				
Carried over from previous year	-	1,749	-	-
Introduced	1,825	1,321	2,131	4
Enacted	76	116	83	4
Vetoed	5	2	9	-
Became law	71	112	74	4
House resolutions:				
Offered	710	633	789	-
Adopted	397	427	389	-
House concurrent resolutions:				
Offered	183	153	245	-
Adopted	45	38	24	-
Senate resolutions:				
Offered	517	386	348	-
Adopted	287	283	218	-
Senate concurrent resolutions:				
Offered	123	64	80	-
Adopted	20	18	15	-

1/ Senate Bill 578, proposing an amendment to the State Constitution, was also passed.

2/ Senate Bills 1703 and 1973, proposing amendments to the State Constitution, were also passed.

Source: Legislative Reference Bureau, records.

Section 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks and other financial institutions, stocks and bonds, insurance, fires, and business firms.

There were nine banks with 181 branches, eight savings and loan associations with 156 branches, four trust companies, and 71 industrial loan or small loan licensees with 238 branch offices in Hawaii as of December 31, 1980. Deposits in Island banks reached $4.5 billion in mid-1980, compared with $1.6 billion a decade earlier. Assets of savings and loan associations stood at $3.9 billion in mid-1980, more than five times their 1970 level. There were 157 credit unions with combined assets of $800 million at the end of 1980.

Approximately 162,000 Hawaii residents held shares in U.S. public corporations or investment companies in 1980. The Honolulu Stock Exchange discontinued operations at the end of 1977.

Life insurance in force in Hawaii at the end of 1979 amounted to $17.1 billion, more than twice the figure reported ten years earlier. For all 579 insurance companies doing business in the Islands, Hawaii premiums amounted to $618 million in 1979 and losses, claims, and benefits paid came to only $281 million. Oahu fire losses amounted to $12 million in fiscal 1980. Persons covered by the two major prepaid health insurance plans as of December 31, 1980, numbered 645,000, with membership dues of $214 million.

By mid-1980, more than 34,000 corporations and partnerships were registered to do business in Hawaii: 22,900 local ("domestic") corporations, 3,400 out-of-State ("foreign") corporations, and 7,700 partnerships. Business establishments with one or more employees in 1979 numbered 20,621; 104 had 250 or more employees. During fiscal 1980, 3,450 new local corporations were formed and 1,621 existing local corporations were dissolved or merged. Business receipts of corporations approached $9.6 billion in 1976; business receipts of proprietorships in 1977 amounted to $840 million. Hawaii's largest corporation, Amfac, Inc., reported 1980 sales of $1.9 billion, with a net profit of $76 million.

Sources for statistics on these subjects include the Hawaii State Department of Regulatory Agencies (specifically its Bank Examination, Insurance, and Business Registration Divisions), the State Department of Taxation, the Honolulu Fire Department, the New York Stock Exchange, the Health Insurance Institute and two major local health insurance plans, the Hawaii Credit Union League, and the annual report on County Business Patterns issued by the U.S. Bureau of the Census. Historical Statistics of Hawaii, Sections 22 and 23, provides information for earlier periods. Comparable Mainland data appear in Sections 17 and 18 of Statistical Abstract of the United States: 1980.

Table 319.-- NUMBER OF BANKS AND OTHER FINANCIAL INSTITUTIONS, BY ISLANDS: DECEMBER 31, 1980

Island	Banks		Savings and loans		Industrial loan licensees		Trust companies	
	Firms	Branch offices	Associations	Branch offices	Firms	Branch offices	Firms	Branch offices
State total 1/	9	181	8	156	71	238	4	7
Hawaii	6	23	8	19	13	23	2	2
Maui	5	18	7	16	9	16	1	1
Lanai	1	1	2	2	-	-	-	-
Molokai	1	2	2	2	1	1	-	-
Oahu	8	113	8	107	69	188	4	4
Kauai	4	12	5	10	7	10	-	-
Niihau	-	-	-	-	-	-	-	-
Other Pacific Islands	2	12	-	-	-	-	-	-

1/ Includes out-of-state branches.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, information provided February 17, 1981.

Table 320.-- BANKS: 1970 TO 1980

Year	Number, June 30		Total assets, June 30 ($1,000)	Debits to demand deposits, cal. year ($1,000)	Bank clearings, cal. year ($1,000)
	Banks	Branch offices and facilities			
1970	7	143	1,762,811	23,305,519	13,286,842
1971	7	149	2,062,194	24,316,129	15,091,524
1972	7	155	2,252,841	27,006,791	16,839,868
1973	8	162	2,625,855	31,803,985	19,253,017
1974	8	164	2,875,085	38,495,103	21,219,856
1975	8	165	2,964,953	42,198,265	23,663,047
1976	8	168	3,207,161	44,908,514	27,173,406
1977	8	166	3,387,094	50,492,878	30,437,727
1978	8	171	4,003,656	58,264,541	34,104,261
1979	9	170	4,431,161	72,492,632	39,746,116
1980	9	173	5,099,835	84,336,851	42,719,522

Year	Deposits, June 30 ($1,000)			
	Total	Demand	Time	Government and other
1970	1,558,671	558,924	631,538	368,209
1971	1,804,545	624,130	751,692	428,723
1972	2,000,685	683,419	843,828	473,438
1973	2,367,682	781,470	982,689	603,523
1974	2,573,664	819,177	1,074,603	679,883
1975	2,615,796	875,441	1,170,368	569,986
1976	2,883,238	880,902	1,326,326	676,010
1977	3,008,895	932,909	1,497,021	578,965
1978	3,601,380	1,099,932	1,664,932	836,517
1979	3,930,365	1,171,686	1,863,368	895,311
1980	4,524,532	1,259,679	2,098,238	1,166,615

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, semi-annual consolidated statements and records.

Table 321.-- SAVINGS AND LOAN ASSOCIATIONS: 1970 TO 1980

(As of June 30)

Year	Number		Assets ($1,000)	Deposits 1/ ($1,000)
	Associations	Branches 2/		
1970	13	51	730,772	584,017
1971	13	55	869,323	716,674
1972	12	62	1,085,455	878,335
1973	12	72	1,325,331	1,032,679
1974	11	82	1,474,175	1,146,587
1975	11	90	1,650,050	1,326,024
1976	11	107	1,923,501	1,608,434
1977	11	112	2,345,999	1,952,042
1978	10	115	2,876,344	2,211,889
1979	9	128	3,447,136	2,664,704
1980	8	139	3,896,380	2,901,379

1/ Withdrawable shares, withdrawable deposits and investment certificates.

2/ Branches, facilities, and agencies.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, semi-annual consolidated statements and records.

Table 322.-- TRUST COMPANIES AND LOAN COMPANIES: 1970 TO 1980

[As of June 30.]

Year	Trust companies		Industrial loan licensees		Small loan licensees	
	Number	Assets ($1,000)	Number	Assets ($1,000)	Number	Assets ($1,000)
1970	3	40,606	213	311,978	46	1,016
1971	3	45,049	220	371,556	47	871
1972	4	46,941	220	448,935	40	365
1973	3	45,809	221	549,495	24	131
1974	3	41,181	225	680,286	24	653
1975	3	46,988	235	718,010	6	67
1976	3	53,365	239	797,883	6	32
1977	3	57,911	242	742,330	-	-
1978	3	59,862	238	776,687	-	-
1979	3	53,779	243	868,539	-	-
1980	4	70,156	249	982,858	-	-

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, semi-annual consolidated statements and records.

Table 323.-- AVERAGE RATE OF RETURN ON BANK LOANS AND AVERAGE INTEREST RATE ON TIME DEPOSITS: 1968 TO 1978

[Figures are calculated using data from two reports filed annually by all FDIC-insured banks in the state--"Report of Condition" and "Report of Income."]

Year	Percent return on bank loans 1/	Percent interest on time deposits 2/
1968	8.41	4.58
1969	8.60	4.94
1970	9.19	5.67
1971	8.75	4.96
1972	8.60	4.71
1973	9.16	5.84
1974	10.30	7.41
1975	9.67	6.02
1976	9.82	5.63
1977	10.12	5.15
1978	10.50	7.06

1/ Based on total amount of interest income from all loans and average amount of loans outstanding.

2/ Based on total amount of interest paid on time deposits and average amount of time deposits held. Data for 1976, 1977 and 1978 limited to data for time deposits of $100,000 or more.

Source: Maxwell J. Fry, "Economic Growth and Capital Shortage in Alaska, Hawaii, and Puerto Rico," Growth and Change, April 1979, pp. 17-21, especially tables 1 and 2; Federal Deposit Insurance Corporation, Bank Operating Statistics (annual).

Table 324.-- PRIME RATE AND FEDERAL FUNDS RATE CHARGED BY BANKS: 1970 TO 1980

Year	Annual averages (percent)	
	Prime rate	Federal funds rate
1970	7.91	7.17
1971	5.70	4.66
1972	5.25	4.44
1973	8.02	8.74
1974	10.80	10.51
1975	7.86	5.82
1976	6.84	5.05
1977	6.82	5.54
1978	9.06	7.93
1979	12.67	11.19
1980	15.27	13.36

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Business Conditions Digest, for January 1979, January 1980, and February 1981.

Table 325.-- CONSUMER CREDIT OUTSTANDING AT BANKS: 1978 TO 1980

[In millions of dollars. As of December 31.]

Type of credit	1978	1979	1980
Total	551.9	707.2	799.8
Credit card and related plans	113.1	150.8	170.2
Automobile loans	160.9	199.2	222.8
Home improvement loans	43.2	59.8	75.5
Other installment loans	161.6	211.9	214.6
Single payment loans	73.1	85.5	116.7

Source: Bank of Hawaii Economics Division, "Consumer credit loans slowed down in 1980," Sunday Star-Bulletin and Advertiser, March 22, 1981, p. F7.

Table 326.-- CREDIT UNIONS: 1977 TO 1980

[As of December 31.]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)
1977	158	599,929,674	535,493,101
1978	158	704,130,075	626,367,918
1979	159	755,417,266	667,505,910
1980	157	800,472,936	714,315,177

Source: Hawaii Credit Union League, records.

Table 327.-- HAWAII RESIDENTS HOLDING SHARES IN U.S. PUBLIC CORPORATIONS OR INVESTMENT COMPANIES: 1959 TO 1980

Year	Shareowners
1959	13,000
1962	18,000
1965	39,000
1970	74,000
1975	58,000
1980	162,000

Source: New York Stock Exchange, Inc., Shareownership in America 1959 (p. 27), Shareownership U.S.A., 1965 Census of Shareowners (p. 22), Shareownership - 1970, Census of Shareowners (p. 20), Shareownership 1975 (p. 19) and Shareownership 1980 (p 19).

Table 328.-- STOCKHOLDINGS OF HAWAII RESIDENTS IN SELECTED MAJOR HAWAII COMPANIES: 1980

[Includes individuals, corporations, trusts, and trust company nominee accounts which have Hawaii addresses-of-record. Only common stock is considered. Excludes shares owned by residents in any non-Hawaii-based broker's name. As of December 31, 1980 unless otherwise noted.]

Company	Hawaii shareholders		Shares held in Hawaii		Market value of shares held in Hawaii 3/ (thousands of dollars)	Annual dividends to Hawaii shareholders 3/ (thousands of dollars)
	Number	Percent of company total	Number (thousands)	Percent of company total		
Amfac, Inc.	4,235	35.9	1,679	13.1	44,904	2,216
Castle & Cooke, Inc. 1/	4,749	15.7	3,778	15.4	43,448	3,022
Dillingham Corporation	4,614	37.9	5,227	39.7	94,086	3,659
Pacific Resources, Inc.	2,651	66.2	6,399	61.8	81,581	3,199
Alexander & Baldwin, Inc. 2/	4,211	50.5	4,617	50.7	147,728	7,386
Hawaiian Electric Co., Inc.	13,441	61.6	2,522	38.7	53,272	6,657
Bancorp Hawaii, Inc.	2,370	57.9	3,473	47.0	56,007	3,334
First Hawaiian, Inc.	1,456	63.4	2,293	75.6	63,044	5,502
Maui Land & Pineapple Co., Ltd.	225	18.7	1,323	73.5	43,003	662

1/ As of May 15, 1981.
2/ As of August 14, 1980.
3/ Based on prices (last trade or bid) and dividend rates as of December 31, 1980.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from data supplied by the companies listed.

Table 329.-- INSURANCE BUSINESS TRANSACTED IN HAWAII: 1969 TO 1979

[Includes data for all insurance companies, life or other, authorized in Hawaii.]

Year	Number of companies authorized, Dec. 31	Premiums paid ($1,000)	Losses, claims and benefits paid ($1,000)	Cumulative net investments in Hawaii Dec. 31 1/ ($1,000)
1969	450	207,184	98,867	868,252
1970	469	246,986	114,011	977,535
1971	485	276,707	119,880	1,168,952
1972	502	303,954	124,502	1,282,566
1973	517	316,897	132,102	1,354,145
1974	534	331,146	155,272	1,487,228
1975	537	380,480	170,561	1,634,549
1976	542	421,545	192,547	1,771,556
1977	546	488,437	225,675	1,944,507
1978	556	555,392	240,320	2,076,291
1979	579	617,571	280,598	2,234,252

1/ Does not include balances in Hawaii banks.

Source: Hawaii State Department of Regulatory Agencies, Report of the Insurance Commissioner of Hawaii (annual).

Table 330.-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII: 1969 TO 1979

Year	Number of companies, 1/ Dec. 31	Insurance written 2/ ($1,000)	Insurance in force, Dec. 31 ($1,000)	Premiums ($1,000)	Losses, claims, and benefits paid ($1,000)
1969 ...	213	1,289,564	6,632,539	91,402	39,703
1970 ...	223	1,376,907	7,441,077	98,360	40,267
1971 ...	233	1,565,272	8,127,837	106,524	45,301
1972 ...	239	1,484,039	8,788,361	115,491	44,661
1973 ...	262	1,935,643	9,433,897	120,229	47,980
1974 ...	270	2,614,259	11,383,173	130,102	54,009
1975 ...	279	2,046,479	12,650,488	138,597	53,291
1976 ...	283	2,269,602	13,560,838	148,977	65,312
1977 ...	285	2,432,658	14,680,847	161,725	63,040
1978 ...	291	2,814,838	15,803,154	172,999	64,391
1979 ...	311	2,999,500	17,122,778	186,487	74,627

1/ Authorized in Hawaii, including fraternal benefit societies. Before 1973, limited to number transacting life insurance business during the year.

2/ Includes insurance revived, increased, or transferred.

Source: Hawaii State Department of Regulatory Agencies, Report of the Insurance Commissioner of Hawaii (annual), and records.

Table 331.-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1979

[In dollars.]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	617,570,669	280,597,662
Life 1/	185,569,094	74,431,503
Fraternal	917,679	195,058
Fire, marine, casualty, and miscell.:		
Accident and health	57,515,132	30,481,757
Fire	17,892,425	5,506,442
Allied lines	6,759,237	1,480,499
Homeowners multiple peril	22,924,946	9,101,473
Private passenger auto no-fault	23,566,183	15,636,992
Other private passenger auto liability	62,296,268	37,227,604
Commercial auto no-fault	4,430,012	2,399,648
Other commercial auto liability	16,760,045	10,124,847
Private passenger auto physical damage	45,718,955	31,255,010
Commercial auto physical damage	6,751,024	4,631,167
Workers' compensation	79,584,020	34,569,860
Other liability	34,922,535	13,795,911
Medical malpractice	5,357,685	1,185,930
Glass	522,238	219,478
Burglary and theft	1,550,691	576,839
Boiler and machinery	2,171,477	121,153
Fidelity and surety	10,452,440	319,332
Ocean marine	4,157,998	3,668,791
Inland marine	7,674,418	2,883,452
Earthquake	280,672	...
All other	10,079,114	280,783
Surplus lines	9,716,381	504,133

1/ Excludes annuities. Also excludes insurance on nonresidents.
Source: Report of the Insurance Commissioner of Hawaii, 1980, p. 5.

Table 332.-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY LOCATION OF HOME OFFICE: 1979

[Money amounts in millions of dollars. For insurance companies authorized in Hawaii.]

Subject	All companies	Domestic	Foreign	Alien (U.S. business only)
Number of companies	579	17	547	15
Financial condition, Dec. 31:				
Assets	508,822.8	418.6	501,674.2	6,730.0
Liabilities exc. capital and surplus	453,793.1	335.7	447,636.2	5,821.2
Policyholder's surplus inc. capital	55,029.8	82.9	54,038.1	908.8
Capital	2,202.7	13.7	2,175.7	13.3
Net gain or loss	3,317.6	0.0	3,369.1	-51.6
Hawaii business:				
Direct premiums written	659.9	183.0	456.7	20.3
Claims and benefits paid	317.3	83.1	226.6	7.7
Investments in Hawaii, Dec. 31 1/	2,234.3	110.4	2,090.5	33.3
Mortgage loans (principal indebtedness)	1,260.0	52.7	1,189.7	17.6
Collateral loans (amount lent)	1.9	0.5	1.5	-
State and county bonds 2/	193.7	10.2	183.2	0.3
Utilities stocks and bonds 2/	184.2	13.8	157.1	13.3
Industrial and misc. stocks and bonds 2/	507.5	26.4	479.1	2.0
Real estate 2/	87.0	6.9	80.0	0.1
Balances in Hawaii banks	12.6	9.6	3.1	-

1/ Does not include balances in Hawaii banks.
2/ Market value (less encumbrances for real estate).
Source: Report of the Insurance Commissioner of Hawaii 1980.

Table 333.-- HEALTH INSURANCE: 1977 TO 1979

Subject	1977	1978	1979
Protected population (thousands): 1/			
Hospital expense	723	762	796
Surgical expense	687	727	751
Physician's expense	660	698	711
Major medical expense	78	85	81
Health insurance benefit payments (millions of dollars), total	197	241	273
Insurance companies	42	46	49
Other hospital-medical plans	155	195	224
Health insurance premiums (millions of dollars), total	212	260	304
Insurance companies	42	50	55
Other hospital-medical plans	170	210	249
Community hospital costs:			
Average length of hospital stay (days)	7.1	7.3	7.5
Average cost (dollars):			
Per patient day	213	233	264
Per patient stay	1,513	1,698	1,978

1/ Number of persons under age 65 protected by hospital, surgical, physician's expense, and major medical expense coverage, as of December 31 (unduplicated).

Source: Health Insurance Institute, Source Book of Health Insurance Data for 1978-1979 (pp. 17, 25, 30, and 61), 1979-1980 (pp. 18, 19, 26, 31, and 70), and 1980-1981 (pp. 18, 19, 26, 30, and 68).

Table 334.-- PREPAID HEALTH PLANS: 1970 TO 1980

Year	Hawaii Medical Service Association		Kaiser Foundation Health Plan			Commercial carrier premiums 1/ ($1,000)
	Persons covered, end of year 2/	Membership dues 3/ ($1,000)	Persons covered 2/		Membership dues ($1,000)	
			Annual average	End of year		
1970 ..	393,546	35,389	82,721	87,008	9,372	23,000
1971 ..	404,293	42,443	89,934	94,009	11,503	26,556
1972 ..	417,305	48,759	95,226	95,877	13,227	29,097
1973 ..	432,905	55,209	96,057	96,242	14,779	31,200
1974 ..	451,583	64,138	97,202	98,184	16,309	33,176
1975 ..	474,265	79,827	100,766	101,827	18,592	35,564
1976 ..	484,295	97,882	103,364	104,785	21,879	42,601
1977 ..	507,709	113,335	106,217	107,592	25,614	46,124
1978 ..	515,439	127,744	110,191	113,388	28,883	51,741
1979 ..	528,362	146,775	115,225	115,963	34,514	57,515
1980 ..	527,281	175,035	116,118	117,409	38,566	(NA)

NA Not available.

1/ For accident and health insurance.

2/ Subscribers and dependents, whether on a group or individual basis.

3/ Excludes investment income, membership fees, etc.

Source: Hawaii Medical Service Association, records; Kaiser Foundation Health Plan, Inc., records; Report of the Insurance Commissioner (annual)

Table 335.-- FIRE CHARACTERISTICS, FOR THE CITY AND COUNTY OF HONOLULU: 1970 TO 1980

[Years ended June 30.]

Year	Fire alarms				Fire deaths	Fire losses (dollars)
	Total alarms	Fires	False alarms	Needless alarms 1/		
1970 ..	6,279	4,716	1,563	-	4	4,531,168
1971 ..	5,679	3,868	1,811	-	8	5,032,081
1972 ..	6,379	3,952	1,838	589	7	3,527,052
1973 ..	7,415	4,930	1,807	678	8	12,962,159
1974 ..	6,132	3,685	1,812	635	11	6,391,520
1975 ..	7,064	4,316	2,057	691	5	7,303,404
1976 ..	8,157	5,278	2,166	713	7	7,369,820
1977 ..	8,225	5,451	2,061	713	5	7,008,431
1978 ..	7,876	5,258	1,858	760	5	9,975,951
1979 ..	8,497	5,962	1,861	674	7	8,027,335
1980 ..	8,749	6,701	1,423	625	13	11,897,724

1/ Non-fire incidents, such as smoke scares or overheated food.

Source: Annual Report of the Fire Department, City and County of Honolulu (annual), and records.

Table 336.-- REGISTERED CORPORATIONS AND PARTNERSHIPS: 1978 TO 1981

[Excludes eleemosynary corporations.]

Subject	1978	1979	1980	1981
Domestic (Hawaii) corporations:				
Formed 1/	2,718	3,233	3,450	3,386
Dissolved or merged 2/	1,879	1,168	1,621	267
On record, June 30	19,023	21,088	22,917	24,726
Foreign (non-Hawaii) corporations:				
Qualified 1/	340	480	476	454
Withdrawn, merged, or cancelled 2/	54	385	217	79
On record, June 30	3,054	3,149	3,408	3,583
Partnerships:				
Registered 1/	1,150	1,939	1,775	1,938
Dissolved or cancelled 2/	500	1,334	1,044	384
On record, June 30	6,360	6,965	7,696	8,194

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

Source: Hawaii State Department of Regulatory Agencies, Business Registration Division, records.

Table 337.-- CHARACTERISTICS OF BUSINESS UNITS OR ESTABLISHMENTS: 1969 TO 1979

Definition and year 1/	Number of employees 2/	Payroll ($1,000)		Number of establishments, by employment-size class 1/		
		First quarter	Annual	Total	1 to 4 3/	5 to 9 4/
OLD DEFINITION						
1969	196,343	283,081	(NA)	12,046	5,268	2,449
1970	208,882	330,607	(NA)	12,146	5,212	2,487
1971	214,916	351,722	(NA)	12,526	5,351	2,570
1972	222,207	383,974	(NA)	12,959	5,332	2,778
1973	239,209	433,925	(NA)	13,640	5,557	2,950
NEW DEFINITION						
1973	236,606	444,491	1,885,174	16,298	(NA)	(NA)
1974 6/	248,859	478,032	2,081,578	16,957	9,045	3,249
1975	252,254	543,590	2,274,957	17,095	9,041	3,317
1976	252,252	577,390	2,412,122	17,271	9,135	3,359
1977 7/.........	263,079	630,090	2,637,726	18,660	9,942	3,741
1978	282,256	699,638	2,966,228	19,222	9,849	3,991
1979	303,298	809,838	3,452,647	20,621	10,568	4,285

Definition and year 1/	Number of establishments by employment-size class 1/ -- Con.					
	10 to 19 5/	20 to 49	50 to 99	100 to 249	250 to 499	500 or more
OLD DEFINITION						
1969	2,462	1,190	369	220	56	32
1970	2,464	1,243	403	240	64	33
1971	2,585	1,258	424	236	70	32
1972	2,725	1,344	434	245	69	32
1973	2,852	1,412	520	243	76	30
NEW DEFINITION						
1973	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1974	2,230	1,558	553	234	53	39
1975	2,305	1,546	565	226	56	39
1976	2,332	1,544	566	248	49	38
1977	2,397	1,642	589	257	52	40
1978	2,695	1,721	602	264	57	43
1979	2,866	1,864	653	281	54	50

Footnotes and source on next page.

Table 337.-- CHARACTERISTICS OF BUSINESS UNITS OR ESTABLISHMENTS: 1969 TO 1979 -- Con.

NA Not available.

1/ Data refer to business units (1973 and earlier years) or establishments (1973 and later) with taxable payrolls during the first quarter of the year. An "establishment" is a single physical location where business is conducted or where service or industrial operations are performed. The reporting units prior to 1974 were defined similarly for manufacturing industries but differently for nonmanufacturing industries; for the latter category, a group of similar establishments or an employer located in the same county was counted as a single reporting unit. Coverage in all years excludes government and self-employed workers.

2/ For week including March 12.

3/ 1 to 3 prior to 1974.

4/ 4 to 7 prior to 1974.

5/ 8 to 19 prior to 1974.

6/ Totals for number of employees, payroll, and total number of establishments are revised figures, but data on number of establishments by size are unrevised and add to 16,961 rather than 16,957.

7/ Revised from 1980 edition, table 294.

Source: U.S. Bureau of the Census, County Business Patterns (annual).

Table 338.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES: 1977 TO 1979

[Excludes government employees and self-employed persons.]

Year and county	Number of establishments	Number of employees, mid-March	Payroll ($1,000)	
			First quarter	Annual
1977 1/				
State total	18,660	263,079	630,090	2,637,726
Hawaii	1,887	20,867	46,257	194,310
Honolulu	14,282	214,022	524,781	2,184,708
Kauai	792	9,332	20,545	86,146
Maui	1,619	18,817	38,485	171,685
Statewide	80	11	26	882
1978				
State total	19,222	282,256	699,638	2,966,228
Hawaii	1,963	22,144	50,321	214,147
Honolulu	14,625	229,478	581,178	2,453,332
Kauai	828	9,723	21,942	94,501
Maui	1,706	20,853	46,135	199,811
Statewide	100	58	61	4,439
1979				
State total	20,621	303,298	809,838	3,452,647
Hawaii	2,106	23,614	58,556	247,989
Honolulu	15,761	244,952	669,541	2,853,811
Kauai	892	11,404	26,566	113,916
Maui	1,858	23,313	55,154	236,865
Statewide	4	15	21	67

1/ Revised from 1980 edition, table 295, p. 323.

Source: U.S. Bureau of the Census, County Business Patterns, 1978, Hawaii, CBP-78-13 (September 1980), p. 15, and County Business Patterns, 1979, Hawaii, CBP-79-13 (May 1981), p. 17.

Table 339.-- CHARACTERISTICS OF BUSINESS UNITS, BY MAJOR INDUSTRY GROUP: 1977 TO 1979

[Excludes government and self-employed workers.]

Major industry group	Number of establishments	Number of employees, mid-March	Payroll ($1,000)	
			First quarter	Annual
1977 1/				
Total	18,660	263,079	630,090	2,637,726
Agricultural services, forestry, fisheries	186	1,513	3,116	13,009
Mining	9	247	886	3,949
Contract construction	1,548	20,071	77,790	308,679
Manufacturing 2/	837	23,873	66,418	278,085
Food and kindred products	204	9,524	23,901	110,534
Apparel and other textile products	136	3,541	6,005	24,702
Transportation and other public utilities	806	26,335	93,134	406,035
Wholesale trade	1,522	15,267	45,555	190,749
Retail trade 2/	5,230	75,159	119,500	504,217
Eating and drinking places	1,411	27,865	33,554	140,862
Finance, insurance, and real estate	2,510	23,132	59,773	244,085
Services 2/	5,533	76,902	163,117	680,024
Hotels and other lodging places	210	18,785	35,101	141,129
Health services	1,146	13,160	39,154	165,711
Nonclassifiable establishments	479	560	856	8,901
1978				
Total	19,222	282,256	699,638	2,966,228
Agricultural services, forestry, fisheries	184	1,616	3,571	14,789
Mining	9	177	746	3,287
Contract construction	1,578	21,309	83,689	364,050
Manufacturing 2/	860	24,412	69,576	295,998
Food and kindred products	212	9,866	26,230	119,501
Apparel and other textile products	148	3,845	6,477	27,997
Transportation and other public utilities	809	26,984	102,034	440,119
Wholesale trade	1,503	15,803	48,121	202,612
Retail trade 2/	5,361	78,762	131,220	554,554
Eating and drinking places	1,446	29,993	36,322	153,256
Finance, insurance, and real estate	2,527	24,995	66,260	280,049
Services 2/	5,595	84,371	187,570	774,125
Hotels and other lodging places	206	20,563	42,998	171,876
Health services	1,186	14,497	44,564	184,754
Nonclassifiable establishments	796	3,827	6,851	36,648

Continued on next page.

Table 339.-- CHARACTERISTICS OF BUSINESS UNITS, BY MAJOR INDUSTRY GROUP: 1977 TO 1979 -- Con.

Major industry group	Number of establishments	Number of employees, mid-March	Payroll ($1,000)	
			First quarter	Annual
1979				
Total	20,621	303,298	809,838	3,452,647
Agricultural services, forestry, fisheries	204	1,625	3,713	16,741
Mining	6	206	863	4,291
Contract construction	1,674	23,970	99,644	439,599
Manufacturing 2/	846	24,765	73,502	315,828
Food and kindred products	196	10,248	29,370	130,268
Apparel and other textile products	147	3,931	6,726	28,942
Transportation and other public utilities	871	29,766	121,953	531,935
Wholesale trade	1,586	16,845	54,427	231,835
Retail trade 2/	5,666	83,410	151,041	626,606
Eating and drinking places	1,571	32,685	42,977	178,457
Finance, insurance, and real estate	2,815	27,783	79,374	346,132
Services 2/	5,917	92,151	221,101	914,474
Hotels and other lodging places	212	23,847	53,547	214,166
Health services	1,297	15,900	53,169	222,849
Nonclassifiable establishments	1,036	2,777	4,220	25,207

1/ Revised from 1980 edition, table 296, p. 324.

2/ Includes subgroups not shown separately.

Source: U.S. Bureau of the Census, County Business Patterns, 1978, Hawaii, CBP-78-13 (September 1980), pp 1-2, and County Business Patterns, 1979, Hawaii, CBP-79-13 (May 1981), pp. 1-2.

Table 340.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY EMPLOYMENT-SIZE CLASS: 1978 AND 1979

[Excludes government employees and self-employed persons.]

Employment-size class	Number of establishments	Number of employees	Annual payroll ($1,000)
1978			
Total	19,222	281,811	2,961,138
1 to 4	9,849	20,262	223,117
5 to 9	3,991	28,530	256,175
10 to 19	2,695	38,574	348,264
20 to 49	1,721	54,097	518,580
50 to 99	602	41,828	433,178
100 to 249	264	40,137	458,563
250 to 499	57	19,733	227,480
500 to 999	28	19,205	215,175
1,000 or more	15	19,445	280,607
1979			
Total	20,621	303,298	3,452,647
1 to 4	10,568	21,271	268,583
5 to 9	4,285	30,432	297,300
10 to 19	2,866	40,944	398,543
20 to 49	1,864	59,041	607,369
50 to 99	653	44,979	492,539
100 to 249	281	42,311	516,723
250 to 499	54	18,126	229,566
500 to 999	31	20,786	238,136
1,000 or more	19	25,408	403,889

Source: U.S. Bureau of the Census, County Business Patterns, 1978, Hawaii, CBP-78-13 (September 1980), pages 3 and 10, and County Business Patterns, 1979, Hawaii, CBP-79-13 (May 1981), pages 3 and 11.

Table 341.-- CORPORATIONS, TAXABLE AND NONTAXABLE: 1975 TO 1977

Subject	Fiscal year ended in -- 1975	1976	1977
Number of corporations	10,966	11,611	12,160
Taxable	5,441	5,445	7,216
Nontaxable	5,525	6,166	4,944
Business receipts 1/	9,095	9,619	11,308
Taxable corporations 1/	6,439	6,578	7,652
Nontaxable corporations 1/	2,657	3,041	3,656
Taxable income, excluding net losses 2/	498.1	396.8	418.9

1/ In millions of dollars.

2/ In millions of dollars. Includes taxable income reported by Small Business Corporations, taxable to individual stockholders only.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns--Corporations (annual reports), and records.

Table 342.-- PROPRIETORSHIPS: 1975 AND 1977

Subject	1975	1977
Number of businesses, total	40,427	42,343
With net profit	28,096	27,859
With net loss	12,331	14,484
Business receipts, total ($ million)	660.4	840.2
Businesses with net profit ($ million)	593.7	706.5
Businesses with net loss ($ million)	66.6	133.7
Net profit reported ($ million)	180.3	251.3
Net loss reported ($ million)	27.3	38.7

Source: Hawaii State Department of Taxation, Hawaii Income Patterns--Proprietorships (biennial report).

Table 343.-- MINORITY-OWNED BUSINESSES: 1977

Minority 1/	All firms		With paid employees			
	Firms (number)	Gross receipts ($1,000)	Firms (number)	Employees 2/ (number)	Annual payroll ($1,000)	Gross receipts ($1,000)
All minorities ..	20,625	1,711,964	2,988	26,563	243,546	1,501,839
Black	189	1,476	7	15	57	319
Spanish origin	203	4,442	19	111	700	2,641
Mexican	67	1,581	7	53	235	1,015
Puerto Rican	73	1,524	6	18	134	613
Other Spanish origin	21	(D)	3	(D)	(D)	(D)
Not specified	42	(D)	3	(D)	(D)	(D)
Asian and other	20,226	1,706,034	2,962	26,437	242,789	1,498,879
American Indian	34	547	4	8	37	226
Asian 3/	14,225	1,424,579	2,438	21,028	181,162	1,262,160
Hawaiian 4/	1,368	29,011	108	686	4,494	17,059
Other minorities 5/.	2,226	212,729	171	3,953	53,315	197,675
Not specified	2,373	39,168	241	762	3,781	21,759

D Withheld to avoid disclosing figures for individual companies.

1/ Based on response to question, "Mark (X) the one box which best applies to the ancestry of the owner or of a majority of the partners or shareholders (whichever is applicable)." Boxes for 21 groups followed this instruction.

2/ For week including March 12.

3/ Asian Indian, Chinese, Japanese, Korean, or other Asian, but not Filipino.

4/ For the United States as a whole, Hawaiians owned 1,814 firms with gross receipts of $45,158,000. These totals included 446 Mainland firms with gross receipts of $16,147,000.

5/ Filipino, Guamanian, Samoan, other Pacific Islander, native Alaskan, Aleutian, or other minority.

Source: U.S. Bureau of the Census, 1977 Survey of Minority-Owned Business Enterprises, MB77-1 (p. 24), MB77-2 (p. 61), MB77-3 (pp. 46 and 51), and MB77-4 (p. 24).

Table 344.-- TOTAL REVENUES AND NET INCOME OF SELECTED MAJOR CORPORATIONS IN HAWAII: 1979 AND 1980

[In millions of dollars.]

Corporation	Total revenues		Net income	
	1979	1980	1979	1980
Amfac, Inc.	1,689.5	1,922.4	56.4	76.1
Castle & Cooke, Inc.	1,593.4	1,733.5	31.0	32.1
Dillingham Corporation	1,154.9	1,361.9	28.4	38.2
Pacific Resources, Inc.	554.1	838.1	12.5	20.7
Alexander & Baldwin, Inc.	356.2	461.3	35.3	71.9
Hawaiian Electric Co., Inc.	332.8	429.9	25.3	26.3
C. Brewer & Co., Ltd.	274.0	361.4	(NA)	(NA)
Hawaiian Telephone Company	259.9	287.8	39.3	41.2
Bancorp Hawaii, Inc.	185.9	240.5	20.6	25.1
First Hawaiian, Inc.	152.7	192.1	14.9	17.0
Hawaiian Airlines, Inc.	109.1	104.5	0.8	-2.4
Maui Land & Pineapple Co., Inc.	103.8	102.4	4.0	1.7
Aloha Airlines, Inc.	69.7	81.6	1.2	4.9
Amelco Corporation	72.6	81.3	0.7	1.9
Interisland Resorts, Ltd.	39.5	41.6	0.3	-3.0
American Security Bank	33.5	41.0	3.0	3.2
Central Pacific Bank	34.0	40.1	2.1	1.7
Crown Corporation	30.8	34.6	2.6	1.0
City Bank	21.8	28.3	1.8	2.0
Liberty Bank	17.2	22.2	1.3	0.7
Hawaii National Bank	13.5	15.7	0.6	0.1
Bishop Investment Corporation 1/	10.2	-	2.1	-
Hawaiian Trust Co., Ltd.	7.1	8.1	1.0	1.1
Bank of Honolulu	3.3	3.9	0.3	0.4

NA Not available.

1/ A wholly owned subsidiary of Crocker National Corporation, effective January 23, 1980.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from corporate annual reports and records.

Table 345.-- INDUSTRIAL AND COMMERCIAL FAILURES: 1977 TO 1979

Year	Number	Current liabilities (million dollars)
1977	9	1.8
1978	31	9.0
1979	38	8.7

Source: Data from Dun & Bradstreet, Inc., cited in Statistical Abstract of the United States for 1979 (p. 575) and 1980 (p. 576).

Section 16

COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the various communications media: postal service, telephone, telegraph, radio, television, newspapers and periodicals, and books.

Hawaii is served by all major communications media. In 1980 it had 76 post offices handling 298 million pieces of mail and accounting for postal receipts in excess of $58 million. There were 712,000 telephones in service (double the number a dozen years earlier), 304,000 telephone homes, 1.96 billion local calls originated, 11.2 million completed interisland calls, and 31.8 million incoming and outgoing transpacific calls. Telegraph messages to and from Hawaii in 1979 totaled 263,000. The 37 commercial, public and educational radio stations in the Islands early in 1981 included 25 on the regular broadcast band and 12 FM stations. The State also had 12 television stations (10 commercial and 2 public), including satellites but excluding translators. Ten cable TV companies served 129,000 subscribers. An estimated 97 percent of all households had television sets, and evening programs in May 1981 were watched by an average of 170,000 households. Island publishers printed seven daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the three English-language dailies averaged 219,000 in 1978-1979, compared with 206,600 at the beginning of the decade.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, CATV Division of the Hawaii State Department of Regulatory Agencies, Hawaiian Telephone Company, Audit Bureau of Circulations, A. C. Nielsen Co., and Hawaii Media Guide. Earlier figures appear in Historical Statistics of Hawaii, Section 18. Data on communications for other States and for the nation as a whole are carried in Statistical Abstract of the United States: 1980, Section 19.

Table 346.-- POSTAL SERVICE: 1970 TO 1980

[For fiscal years ended June 30 through 1976 and September 30 thereafter.]

Fiscal year	Number of post offices 1/	Gross postal receipts ($1,000)	Pieces of mail 2/ (millions)
1970	80	20,840	187
1971	80	21,976	201
1972	78	23,434	215
1973	77	27,100	226
1974	76	29,663	233
1975	76	33,549	238
1976	76	37,433	242
1977	76	43,790	249
1978	76	49,198	267
1979	76	55,267	276
1980	76	58,413	298

1/ At end of period. Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices; excludes branches and stations.

2/ Originating in Hawaii. Mail originating elsewhere is excluded.

Source: U.S. Postal Service, Honolulu, records; 1970 Annual Report of the Postmaster General, pp. 90 and 110.

Table 347.-- NUMBER OF POST OFFICES, BY ISLANDS: SEPTEMBER 30, 1980

[Includes all 1st-, 2nd-, and 4th-class post offices; excludes branches and stations.]

Island	Post offices
State total	76
Hawaii	28
Maui	10
Lanai	1
Molokai	5
Oahu	17
Kauai	15
Niihau	-
Other islands	-

Source: U.S. Postal Service, Honolulu, data supplied February 23, 1981.

Table 348.-- TELEGRAPH MESSAGES: 1970 TO 1979

Year	Total messages	From Hawaii to Mainland			From Mainland to Hawaii		
		Total from Hawaii	Originated in Hawaii	Originated elsewhere	Total to Hawaii	Originated on Mainland	Originated elsewhere
1970	567,550	266,811	198,830	67,981	300,739	236,106	64,633
1971	419,188	201,600	135,581	66,019	217,588	154,506	63,082
1972	392,596	189,214	122,792	66,422	203,382	141,682	61,700
1973	385,823	198,693	136,747	61,946	187,130	116,850	70,280
1974	382,281	185,204	100,321	84,883	197,077	125,319	71,758
1975	346,851	166,700	81,986	84,714	180,151	110,390	69,761
1976	307,036	156,235	70,692	85,543	150,801	80,638	70,163
1977	277,748	142,903	61,512	81,391	134,845	70,826	64,019
1978	271,747	137,687	54,505	83,182	134,060	69,055	65,005
1979	262,888	134,265	50,522	83,743	128,623	65,598	63,025

Source: Federal Communications Commission, Common Carrier Bureau, records.

Table 349.-- TELEPHONES IN SERVICE AND RESIDENCE MAIN STATIONS: 1970 TO 1980

[Data before 1971 exclude Defense Administrative Telephone System (DATS), taken over by the Hawaiian Telephone Company in that year.]

Year	Telephones in service December 31,			Residence main stations, Dec. 31
	State total	Oahu	Other islands	
1970	414,165	339,952	74,213	199,333
1971 1/	445,995	365,733	80,262	212,983
1972	498,593	412,443	86,150	221,277
1973	523,699	430,612	93,087	231,146
1974	544,718	444,359	100,359	239,923
1975	567,685	460,602	107,083	250,319
1976	596,952	480,937	116,015	262,982
1977	627,848	501,914	125,934	273,860
1978	659,141	523,472	135,669	285,948
1979	684,812	539,582	145,230	296,433
1980	712,095	555,790	156,305	303,928

1/ Defense Administrative Telephone System (DATS) included beginning in 1971.

Source: Hawaiian Telephone Company, records.

Table 350.-- TELEPHONE CALLS: 1973 TO 1980

[In thousands.]

Year	Local 1/		Interisland		Transpacific (paid)	
	Originating	Completed	Paid 2/	Completed	Outgoing	Incoming and outgoing 3/
1973	1,379,709	931,304	3,754	3,805	3,795	6,814
1974	1,438,381	949,332	4,494	4,564	4,775	8,620
1975	1,395,876	918,486	5,156	5,352	5,908	10,703
1976	1,517,337	1,012,064	5,851	6,140	7,448	13,621
1977	1,566,869	1,052,936	6,838	7,028	9,485	17,103
1978	1,719,200	1,139,829	8,087	8,317	12,232	22,540
1979	1,830,954	1,186,458	9,635	10,040	15,160	28,113
1980	1,957,427	1,468,070	10,652	11,239	17,199	31,804

1/ Revised from 1978 edition, table 262. For a discussion of these revisions and annual comparability of data before 1973, see 1979 edition, table 248.

2/ Excludes uncollectables.

3/ Includes calls paid in Hawaii and elsewhere.

Source: Hawaiian Telephone Company, records.

Table 351.-- TELEPHONE SERVICE, BY ISLANDS: 1980

Island	Telephones in service, Dec. 31,	Main stations, Dec 31		Inter-island calls 1/	Trans-pacific calls 2/
		Residence	Business		
State total	712,095	303,928	79,565	11,238,672	17,198,756
Oahu	555,790	237,019	61,141	5,173,118	13,710,542
DATS 3/	26,029	-	12,178	...	...
Other Oahu	529,761	237,019	48,963	...	...
Other Islands	156,305	66,909	18,424	6,065,554	3,488,214
Hawaii	66,405	29,293	8,100	2,563,150	1,258,462
Maui	56,118	23,093	6,313	2,271,493	1,609,847
Lanai	901	634	101	...	...
Molokai	3,607	1,678	413	...	...
Kauai	29,274	12,211	3,497	1,230,911	619,905

1/ Number completed, by island of origination. Oahu total includes Lanai and Molokai.

2/ Paid calls outgoing from Hawaii, by island of origination. Oahu total includes Lanai and Molokai.

3/ Defense Administrative Telephone System.

Source: Hawaiian Telephone Company, records.

Table 352.-- COMMERCIAL AND PUBLIC OR EDUCATIONAL RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION: JANUARY 1, 1981

Kind of station	Commercial stations	Public or educational stations
Radio, AM	25	-
Radio, FM	11	1
Television, except satellites ..	4	2
Television satellites	6	-

Source: Federal Communications Commission, Broadcast Bureau, Policy and Rules Division, Policy Analysis Branch, information supplied June 5, 1981.

Table 353.-- BROADCAST REVENUES AND EXPENDITURES OF COMMERCIAL RADIO AND TELEVISION STATIONS: 1977 TO 1979

Category and year	Number of stations		Broadcast revenues (dollars)	Broadcast expenses (dollars)
	In operation	Reporting		
Radio: 1/				
1977	27	27	9,823,082	11,273,172
1978	31	26	11,276,796	12,672,688
1979	36	32	12,977,465	13,444,053
Television: 2/				
1977	10	6	18,855,099	17,979,561
1978	10	6	23,095,726	19,964,945
1979	10	6	22,333,491	20,930,128

1/ AM and FM stations counted as one station.

2/ Includes satellites.

Source: Federal Communications Commission, Broadcast Bureau, Policy and Rules Division, Policy Analysis Branch, information supplied June 5, 1981.

Table 354.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1979 AND 1980

County	Number of companies Dec. 31 1/		Subscribers, Dec. 31		Gross revenue ($1,000)	
	1979	1980	1979	1980	1979	1980
State total	10	10	114,790	128,719	13,260	16,191
Hawaii	3	3	12,757	14,296	1,438	1,865
Maui	2	2	7,271	8,853	721	943
Honolulu	5	5	92,526	103,341	10,773	13,024
Kauai	1	1	2,236	2,229	328	359

1/ State total is unduplicated figure; one company provided service to both Hawaii and Maui Counties.

Source: Hawaii State Department of Regulatory Agencies, CATV Division, records.

Table 355.-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREAS: JANUARY 1981

Geographic area	Total households	Television households	
		Number	Percent
State total ...	302,500	293,500	97.0
Oahu	236,100	230,480	97.6
Other islands	66,400	63,020	94.9

Source follows next table.

Table 356.-- AVERAGE NUMBER OF TELEVISION VIEWERS, BY TIME OF DAY: FEBRUARY 1981 AND MAY 1981

[In thousands.]

Time of day	Days of week	Households 1/		Persons 2/	
		Feb. 1981	May 1981	Feb. 1981	May 1981
7 A.M. to 1 A.M.	Sun.-Sat.	75	79	134	137
7 A.M. to 9 A.M.	Mon.-Fri.	42	46	63	63
9 A.M. to noon	Mon.-Fri.	34	36	46	46
Noon to 3:30 P.M.	Mon.-Fri.	52	53	71	69
3:30 to 6:30 P.M.	Mon.-Fri.	94	107	165	184
6:30 to 10:00 P.M.	Sun.-Sat.	158	164	319	320
7:00 to 10:00 P.M.	Mon.-Fri.	160	170	315	324
10:30 P.M. to midnight ..	Mon.-Fri.	47	52	74	77

1/ Average number of households with a TV set turned on.

2/ Average number of persons, 2 years old and over, in television households that are viewing any station.

Source: A.C. Nielsen Company, Viewers in Profile, Honolulu, HI (Including Satellite/Affiliate Areas) for February 1981 (pp. 5 and 7) and May 1981 (pp. 1, 5, and 7).

Table 357.-- PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1969-70 TO 1980-81

[Averages for 12-month periods ended March 31.]

Year	Honolulu Advertiser 1/	Honolulu Star-Bulletin 1/	Sunday Star-Bulletin and Advertiser	Hawaii Tribune-Herald 2/	
				Daily	Sunday
1969-70	73,055	121,286	170,835	12,208	12,509
1970-71	75,691	125,873	176,607	13,050	13,351
1971-72	74,915	126,027	179,910	13,598	13,994
1972-73	74,248	128,132	184,359	14,187	14,534
1973-74	76,763	130,532	190,037	15,216	15,654
1974-75	75,613	119,691	183,783	15,710	16,303
1975-76	73,834	115,145	183,566	16,386	17,361
1976-77	77,442	118,925	191,903	16,424	17,548
1977-78	79,501	118,883	195,594	16,440	17,950
1978-79	82,958	119,205	201,649	16,964	18,651
1979-80	83,478	118,340	201,445	17,825	19,555
1980-81	83,721	115,814	201,301	(NA)	(NA)

NA Not available.

1/ Published daily, Monday through Saturday.

2/ Published daily, Monday through Friday.

Source: Audit Bureau of Circulations data supplied by the Hawaii Newspaper Agency, Inc., and the Hawaii Tribune-Herald.

Table 358.-- PERIODICALS PUBLISHED IN HAWAII: 1981

Frequency	Newspapers 1/		Magazines and other periodicals
	English	Foreign language	
Daily, 5 to 7 times weekly	3	4	-
2 to 4 times weekly	4	-	1
Weekly	1	1	19
Semi-monthly or biweekly	1	1	16
Monthly	-	-	25
2 to 10 times annually	-	-	6

1/ The daily newspapers are: Honolulu Advertiser, Honolulu Star-Bulletin, and Hawaii Tribune-Herald (Hilo), all English-language; Hawaii Hochi and Hawaii Times, both bilingual (Japanese and English); Korea Times & Han Kook Ilbo (Korean language); and United Chinese Press (Chinese language). All but the Hawaii Tribune-Herald are published in Honolulu.

Source: Aloha United Way, Hawaii Media Guide, 1981.

Table 359.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY PRESS OF HAWAII: 1979 AND 1980

Year	Published titles 1/		New books and journals published 2/		Volumes sold 2/	Sales revenues 2/ (dollars)
	Cumulative total	In print	Books	Scholarly journals		
1979	550	441	34	5	182,598	790,214
1980	588	474	37	5	187,795	894,184

1/ As of June 30.

2/ Year ended June 30.

Source: The University Press of Hawaii, Annual Report (annual), and records.

Table 360.-- POSTAGE AND TELEGRAPH RATES AND NEWSPAPER PRICES, FOR HONOLULU: 1970 TO 1981

[In cents. As of July 1.]

Year	Domestic postage rates 1/			Telegraph rate per word 2/	Newspaper price 3/	
	Letters		Postal and post cards		Daily	Sunday
	First ounce	Each added ounce				
1970	6	6	5	21	10	25
1971	8	8	6	21	15	35
1972	8	8	6	21	15	35
1973	8	8	6	21	15	35
1974	10	10	8	21	20	45
1975	10	10	8	21	20	50
1976	13	11	9	21	20	50
1977	13	11	9	21	20	50
1978	15	13	10	21	20	50
1979	15	13	10	21	25	60
1980	15	13	10	21	25	60
1981	18	17	12	21	25	75

1/ Surface mail rates. Beginning in 1959, first-class mail was routinely airlifted to and from the Mainland, and, effective October 11, 1975, surface mail service was upgraded to the level of airmail throughout the nation. Domestic airmail service was discontinued as of May 1, 1977.

2/ Per full-rate word (non-coded) between Honolulu and the Mainland.

3/ Street sales, for the Honolulu Advertiser, Honolulu Star-Bulletin, and Sunday Star-Bulletin and Advertiser.

Source: Postal rates from Statistical Abstract of the United States: 1980, p. 582, as updated. Telegraph rates from Federal Communications Commission, records, and telegraph company Honolulu offices. Newspaper rates from mastheads.

Table 361.-- TELEPHONE RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1971 TO 1981

[In dollars. As of July 1. Including tax.]

Year	Local call, pay phone	Honolulu to Hilo		Honolulu to California		Monthly charge, indiv. res. line
		Direct dialing 1/	Through operator 2/	Direct dialing 1/	Through operator 2/	
1971 ..	0.10	...	0.99	...	4.29	9.90
1972 ..	0.10	0.99	0.99	4.29	4.29	10.12
1973 ..	0.10	0.97	0.97	3.27	4.25	10.63
1974 ..	0.10	0.97	0.97	2.59	3.40	10.53
1975 ..	0.10	0.96	0.96	2.57	3.37	10.17
1976 ..	0.10	0.95	0.95	2.39	3.34	10.07
1977 ..	0.10	0.94	0.94	1.86	2.84	9.98
1978 ..	0.15	0.94	0.94	1.84	2.81	11.86
1979 ..	0.15	0.90	0.90	1.61	2.55	11.74
1980 ..	0.15	1.06	1.89	1.64	2.60	11.63
1981 ..	0.15	1.06	1.89	1.64	2.60	11.63

1/ Daytime calls, first three minutes. Direct dialing was introduced January 16, 1972.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

Source: Hawaiian Telephone Company, records.

Section 17

ENERGY AND SCIENCE

This section presents statistics on energy production and consumption, the electric and gas utility industries, and research and development and scientific resources.

Electricity sales exceeded 6.3 billion kilowatt-hours in 1980, a total that has doubled since 1968. Manufactured gas sales reached 34.7 million therms in 1980, 25 percent above the figure ten years earlier. Residential rates in 1980 averaged 7.9 cents per kilowatt-hour and $1.47 per therm, both well above the corresponding rates only a few years earlier. Average residential use (7,117 kWh and 244 therms in 1980) has declined significantly in recent years.

The liquid fuel tax base for 1980 was approximately 940 million gallons, compared with 825 million in 1974 and 755 million in 1970. The 1980 total included 313 million gallons of gasoline, 503 million of aviation fuel, and 119 million of diesel oil. The average price for leaded premium gasoline rose from 48.7 cents per gallon in October 1973 to $1.606 in May 1981.

Total energy consumption in 1978 amounted to 253 trillion British thermal units, compared with 196 trillion BTU a decade earlier. Transportation accounted for 58 percent of the 1978 total.

The State is well served with scientific resources. A 1976 inventory reported 384 companies and agencies with research or scientific capabilities. Employment in these organizations was more than 34,000. Federal research and development obligations in Hawaii exceeded $40 million in 1979. Thirty-two patents were granted to Hawaii residents in 1980.

Information on energy and science can be obtained from reports and records of the U.S. Department of Energy, U.S. Patent and Trademark Office, National Science Foundation, Hawaii State Department of Taxation, Hawaii State Department of Regulatory Agencies, Public Utilities Division, and individual utility companies. Detailed statistics on energy consumption appear in Hawaii Integrated Energy Assessment, Vol. IV, Energy Data Handbook, published by the State Energy Office of the Department of Planning and Economic Development in 1980. Hawaii's Scientific Resources, 1977 Directory, issued by DPED in 1977, contains information on scientific organizations and facilities in the Islands. Historical Statistics of Hawaii, Section 19, presents data for earlier years. Data for the nation as a whole can be found in the Statistical Abstract of the United States: 1980, Sections 20 and 21.

Table 362.-- CONSUMPTION OF ENERGY, BY TYPE (PHYSICAL UNITS): 1960 TO 1978

Year	Petroleum (1,000 barrels)	Hydro-electric power 1/ (million kWh)	Geo-thermal power 2/ (million kWh)	Wood and waste 2/ (million kWh)	Other types 3/
1960	21,347	0	0	0	0
1961	24,863	0	0	0	0
1962	22,557	0	0	0	0
1963	23,563	23	0	0	0
1964	25,146	115	0	0	0
1965	26,150	105	0	0	0
1966	27,944	112	0	0	0
1967	31,803	108	0	0	0
1968	35,077	94	0	30	0
1969	37,068	100	0	29	0
1970	37,988	108	0	24	0
1971	40,623	89	0	15	0
1972	41,577	91	0	18	0
1973	42,810	95	0	22	0
1974	40,818	92	0	30	0
1975	40,851	89	0	25	0
1976	41,599	93	0	29	0
1977	44,760	91	0	26	0
1978	44,821	91	0	0	0

1/ Includes industrial and utility production, and net imports of electricity.

2/ Consumed at utilities to produce electricity.

3/ Coal, natural gas (dry), and nuclear power.

Source: U.S. Department of Energy, Energy Statistics Branch, State Energy Data Report, Statistical Tables and Technical Documentation, 1960 Through 1978 (April 1980), p. 111.

Table 363.-- CONSUMPTION OF ENERGY, BY TYPE (TRILLION BTU): 1960 TO 1978

Year	Total energy consumed	Petroleum	Hydro-electric power 1/	Geo-thermal power 2/	Wood and waste 2/	Other types 3/
1960	120.193	118.606	0.000	0.000	0.000	0.000
1961	138.188	138.063	0.000	0.000	0.000	0.000
1962	123.509	125.102	0.000	0.000	0.000	0.000
1963	127.118	130.400	0.240	0.000	0.000	0.000
1964	136.374	139.006	1.205	0.000	0.000	0.000
1965	142.633	144.662	1.093	0.000	0.000	0.000
1966	156.101	154.588	1.165	0.000	0.023	0.000
1967	176.129	175.396	1.131	0.000	0.000	0.000
1968	195.703	193.062	0.979	0.000	0.316	0.000
1969	206.186	203.577	1.043	0.000	0.299	0.000
1970	211.352	209.051	1.131	0.000	0.257	0.000
1971	226.070	223.589	0.936	0.000	0.158	0.000
1972	230.254	228.671	0.941	0.000	0.189	0.000
1973	238.747	236.099	0.985	0.000	0.233	0.000
1974	228.957	224.660	0.958	0.000	0.316	0.000
1975	229.453	224.433	0.929	0.000	0.259	0.000
1976	234.181	228.963	0.962	0.000	0.305	0.000
1977	249.223	247.343	0.948	0.000	0.270	0.000
1978	253.473	247.368	0.951	0.000	0.000	0.000

1/ Includes industrial and utility production, and net imports of electricity.

2/ Consumed at utilities to produce electricity.

3/ Coal, natural gas (dry), and nuclear power.

Source: U.S. Department of Energy, Energy Statistics Branch, State Energy Data Report, Statistical Tables and Technical Documentation, 1960 Through 1978 (April 1980), p. 111.

Table 364.-- CONSUMPTION OF ENERGY BY END-USE SECTOR: 1960 TO 1978

[Trillion Btu.]

Year	Total energy con-sumed 1/	Residen-tial 2/	Commer-cial 2/	Indus-trial 2/	Trans-porta-tion 2/	Electric util-ities 3/
1960	120.193	9.691	16.811	28.159	65.533	23.242
1961	138.188	9.943	20.443	31.561	76.241	24.356
1962	123.509	10.063	12.829	29.392	71.225	25.812
1963	127.118	9.926	10.868	30.369	75.956	27.641
1964	136.374	10.867	9.280	33.170	83.057	30.224
1965	142.633	11.742	10.281	34.956	85.653	31.573
1966	156.101	12.488	9.034	37.405	97.174	30.417
1967	176.129	13.618	9.517	40.528	112.466	31.900
1968	195.703	14.911	11.503	40.087	129.203	34.909
1969	206.186	17.792	12.552	44.604	131.237	38.721
1970	211.352	20.034	14.193	47.064	130.061	43.278
1971	226.070	21.493	13.494	48.106	142.978	47.694
1972	230.254	22.288	14.434	52.980	140.553	52.983
1973	238.747	23.613	15.554	55.141	144.439	55.730
1974	228.957	24.340	16.086	55.660	132.872	57.783
1975	229.453	22.939	16.933	56.246	133.335	58.845
1976	234.181	25.351	17.569	58.123	133.137	61.644
1977	249.223	26.050	18.258	62.077	142.838	67.923
1978	253.473	26.060	18.938	61.325	147.150	64.991

1/ Totals do not include small quantities of energy sources for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; wind energy; and geothermal, biomass, and waste energy other than that consumed at the electric utilities.

2/ Data include power from electric utilities, including electrical energy losses incurred in the generation and transmission of electricity.

3/ Distributed among the other four sectors.

Source: U.S. Department of Energy, Energy Statistics Branch, State Energy Data Report, Statistical Tables and Technical Documentation, 1960 Through 1978 (April 1980), p. 112.

Table 365.-- ELECTRIC UTILITIES: 1970 TO 1980

Year	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
1970 ..	219,003	186,282	32,721	1,007,021	3,758,094	1,270,732	2,487,362
1971 ..	226,514	193,043	33,471	1,016,350	4,167,127	1,375,308	2,791,819
1972 ..	236,309	201,903	34,406	1,135,055	4,562,568	1,493,840	3,068,728
1973 ..	246,255	210,740	35,515	1,266,600	4,867,850	1,581,855	3,285,995
1974 ..	255,901	219,633	36,268	1,419,892	5,113,906	1,635,928	3,477,928
1975 ..	263,816	226,836	36,980	1,454,359	5,334,755	1,676,438	3,658,317
1976 ..	270,035	232,070	37,965	1,454,359	5,615,209	1,750,618	3,864,592
1977 ..	275,616	237,557	38,059	1,481,680	5,831,610	1,779,314	4,052,296
1978 ..	284,064	244,863	39,201	1,487,490	6,004,891	1,799,024	4,205,867
1979 ..	293,061	252,898	40,163	1,502,840	6,197,426	1,851,457	4,345,969
1980 ..	301,544	260,358	41,186	1,514,180	6,345,531	1,852,984	4,492,547

Year	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1970 ..	6,822	76,017	.026810	.020113	84,097	34,068	50,029
1971 ..	7,124	83,410	.028229	.021493	98,849	38,823	60,026
1972 ..	7,399	89,192	.02849	.02172	109,217	42,557	66,660
1973 ..	7,506	92,524	.03077	.02367	126,449	48,680	77,769
1974 ..	7,449	95,895	.03493	.02704	151,177	57,149	94,028
1975 ..	7,391	98,927	.04586	.03794	215,677	76,885	138,792
1976 ..	7,543	101,794	.04796	.03934	235,999	83,957	152,042
1977 ..	7,490	106,474	.05222	.04408	271,553	92,917	178,636
1978 ..	7,347	107,290	.05883	.04943	313,722	105,846	207,876
1979 ..	7,321	108,208	.06420	.05424	354,595	118,862	235,733
1980 ..	7,117	109,079	.07901	.06964	459,251	146,397	312,854

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 366.-- ELECTRIC UTILITIES, BY ISLANDS: 1980

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Resi-dential	Other		Total	Resi-dential	Other
State total	301,544	260,358	41,186	1,514,180	6,345,531	1,852,984	4,492,547
Oahu	217,142	189,771	27,371	1,209,400	5,266,522	1,446,130	3,820,392
Hawaii	35,590	29,476	6,114	124,300	426,857	175,426	251,431
Kauai	16,711	14,104	2,607	62,080	188,798	70,099	118,699
Maui County	32,101	27,007	5,094	118,400	463,354	161,329	302,025
Lanai	868	699	169	-	6,142	3,565	2,577
Maui	28,986	24,470	4,516	110,300	434,519	147,432	287,087
Molokai	2,247	1,838	409	8,100	22,693	10,332	12,361

County or island	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Resi-dential	Other	Resi-dential	Other	Total	Resi-dential	Other
State total	7,117	109,079	0.07901	0.06964	459,251	146,397	312,854
Oahu	7,620	139,578	0.07073	0.06267	341,697	102,281	239,416
Hawaii	5,951	41,124	0.10332	0.10009	43,290	18,124	25,166
Kauai	4,970	45,531	0.13863	0.14233	26,612	9,718	16,894
Maui County	5,974	59,290	0.10088	0.10389	47,652	16,274	31,378
Lanai	5,100	15,247	0.11205	0.12201	714	400	314
Maui	6,025	63,571	0.09810	0.10074	43,385	14,463	28,922
Molokai	5,621	30,222	0.13662	0.17326	3,553	1,411	2,142

1/ Based on number of customers at end of year.
Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 367.-- GAS UTILITIES: 1970 TO 1980

[Excludes bottled gas.]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
1970 ...	36,142	32,163	3,979	27,831	10,891	16,940
1971 ...	36,153	32,072	4,081	30,445	9,279	21,167
1972 ...	36,083	31,806	4,277	33,322	9,321	24,000
1973 ...	35,781	31,142	4,639	34,540	8,931	25,609
1974 ...	35,228	30,620	4,608	34,363	8,096	26,267
1975 ...	34,685	30,236	4,449	35,594	8,230	27,364
1976 ...	34,264	29,873	4,391	35,568	8,121	27,447
1977 ...	33,722	29,408	4,314	34,844	7,612	27,232
1978 ...	33,413	29,091	4,322	34,919	7,388	27,532
1979 ...	33,309	29,014	4,295	35,264	7,326	27,937
1980 ...	33,019	28,825	4,194	34,705	7,030	27,675

Year	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1970 ...	339	4,257	.3619	.2227	7,714	3,941	3,773
1971 ...	289	5,187	.3699	.2308	8,317	3,432	4,885
1972 ...	293	5,612	.36843	.22681	8,878	3,434	5,444
1973 ...	287	5,520	.37518	.23121	9,272	3,351	5,921
1974 ...	264	5,700	.68361	.52267	19,264	5,535	13,729
1975 ...	272	6,151	.81723	.63583	24,125	6,726	17,399
1976 ...	272	6,251	.82767	.63369	24,115	6,722	17,393
1977 ...	259	6,313	.85883	.65821	24,462	6,537	17,925
1978 ...	254	6,370	.91647	.71792	26,536	6,770	19,766
1979 ...	253	6,505	1.09260	.89221	32,931	8,006	24,925
1980 ...	244	6,599	1.46583	1.25951	45,162	10,305	34,857

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 368.-- GAS UTILITIES, BY ISLANDS: 1980

[Excludes bottled gas.]

Island	Customers, Dec. 31			Gas sold (therms)		
	Total	Residential	Other	Total	Residential	Other
State total	33,019	28,825	4,194	34,705,005	7,030,421	27,674,584
Oahu	30,265	26,455	3,810	31,636,007	6,456,326	25,179,681
Hawaii	2,076	1,751	325	2,295,493	423,882	1,871,611
Kauai	281	281	-	73,213	73,213	-
Maui	397	338	59	700,292	77,000	623,292
Molokai	-	-	-	-	-	-
Lanai	-	-	-	-	-	-

Island	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	244	6,599	1.46583	1.25951	45,162	10,305	34,857
Oahu	244	6,609	1.49256	1.28550	42,005	9,636	32,369
Hawaii	242	5,759	1.17655	1.00025	2,371	499	1,872
Kauai	261	-	1.18661	-	87	87	-
Maui	228	10,564	1.08217	0.98782	699	83	616
Molokai	-	-	-	-	-	-	-
Lanai	-	-	-	-	-	-	-

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 369.-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU: 1970 TO 1980

Year	Number of customers, Dec. 31		Net input 1/ (1,000 kWh)	Power sold (1,000 kWh)	Average annual residential use 2/ (kWh)	Average residential rate (dollars per kWh)	Installed capacity 3/ (kW) Dec. 31
	Total	Residential only					
1970 ..	168,531	144,854	3,494,059	3,275,673	7,478	0.02438	811,700
1971 ..	174,300	150,285	3,844,325	3,600,728	7,776	0.02555	811,700
1972 ..	180,794	156,249	4,175,342	3,942,679	8,108	0.02584	902,600
1973 ..	187,321	162,180	4,407,460	4,189,397	8,191	0.02812	1,005,200
1974 ..	194,043	168,525	4,641,204	4,393,616	8,110	0.03063	1,140,180
1975 ..	198,598	172,839	4,793,015	4,555,118	7,999	0.04313	1,140,180
1976 ..	201,974	175,581	5,038,978	4,761,592	8,102	0.04385	1,140,180
1977 ..	205,225	179,139	5,209,990	4,911,435	8,035	0.04810	1,140,180
1978 ..	209,907	183,519	5,331,724	5,025,540	7,875	0.05485	1,140,180
1979 ..	213,781	186,875	5,466,677	5,163,786	7,846	0.05813	1,140,180
1980 ..	217,142	189,771	5,525,998	5,266,522	7,661	0.07126	1,140,180

1/ Net generated plus purchased power.
2/ Based on average number of customers during the year.
3/ Maximum generator nameplate.
Source: Hawaiian Electric Co., Inc., records.

Table 370.-- RESIDENTIAL CUSTOMERS, VACANT UNITS, AND TURN-ONS, FOR HOUSING UNITS SERVED BY THE HAWAIIAN ELECTRIC COMPANY ON OAHU: 1970 TO 1980

Year	Residential customers, Dec. 31	Vacant units, Dec.		Turn-ons, annual	
		Number	Ratio 1/	Number	Ratio 1/
1970	148,239	1,747	1.2	19,984	13.5
1971	155,544	1,708	1.1	20,871	13.4
1972	159,542	1,545	1.0	22,305	14.0
1973	163,590	2,392	1.5	20,918	12.8
1974	171,498	2,381	1.4	20,187	11.8
1975	175,254	3,326	1.9	22,300	12.7
1976	184,350	2,653	1.4	20,339	11.0
1977	188,456	2,352	1.2	22,673	12.0
1978	192,280	2,362	1.2	32,779	17.0
1979	201,013	1,297	0.6	32,419	16.1
1980	222,745	2,662	1.2	20,499	9.2

1/ Per 100 residential customers, Dec. 31.
Source: Hawaiian Electric Co., Inc., records.

Table 371.-- GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1970 TO 1980

Calendar year	Customers, Dec. 31		Gas sold 1/ (1,000 therms)		Average annual residential usage 1/ (therms)
	Total	Residential	Total	Residential	
1970 ...	33,851	29,880	26,696	10,026	336
1971 ...	33,691	29,621	29,082	8,290	280
1972 ...	33,479	29,256	31,643	8,258	282
1973 ...	33,142	28,813	32,610	8,041	279
1974 ...	32,455	28,200	32,166	7,522	267
1975 ...	31,856	27,778	32,885	7,600	274
1976 ...	31,443	27,429	32,649	7,490	276
1977 ...	30,926	26,993	31,831	7,007	260
1978 ...	30,659	26,722	31,842	6,797	254
1979 ...	30,582	26,686	32,135	6,736	252
1980 ...	30,471	26,625	31,636	6,455	242

1/ Includes liquefied petroleum gas.
Source: Gasco, Inc., records.

Table 372.-- TYPICAL RESIDENTIAL UTILITY MONTHLY RATES, BY ISLANDS: FEBRUARY 1981

[In dollars.]

Utility and monthly use	Oahu	Hawaii	Kauai	Maui	Molokai	Lanai
Water:						
5/8-inch meter, 5,000 gal.	6.30	7.25	4.50	5.80	5.80	2.95
5/8-inch meter, 10,000 gal. ...	10.10	10.80	7.00	8.60	8.60	4.65
1-inch meter, 20,000 gal.	17.70	21.40	15.00	19.70	19.70	9.30
1-1/2-inch meter, 50,000 gal. .	40.50	48.20	35.00	45.50	45.50	22.00
Electricity: 1/						
250 kilowatt-hours	32.05	32.46	41.75	30.91	46.57	33.64
500 kilowatt-hours	57.63	56.93	76.94	54.62	86.68	60.08
750 kilowatt-hours	83.46	81.39	111.49	78.38	126.79	86.57
1,000 kilowatt-hours	109.69	105.86	146.03	102.65	166.90	113.56
Gas: 1/						
10 therms	17.82	14.30	14.09	12.76	...	...
25 therms	38.92	31.81	32.32	29.46	...	...
50 therms	74.82	60.29	62.24	57.06	...	...
100 therms	147.62	117.59	122.29	112.56	...	...
Telephone: 2/						
Individual line	11.40	10.20	9.70	9.70	8.30	7.50
Two-party line	9.35	8.55	8.20	8.20	7.05	6.40

1/ Includes fuel adjustment surcharge.

2/ Excludes federal excise tax (2 percent for 1981).

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division; Honolulu Board of Water Supply; Hawaii County Department of Water Supply; Kauai County Department of Water; Maui County Department of Water Supply; Koele Company, Inc.

Table 373.-- LIQUID FUEL TAX BASE: 1970 TO 1980

[In thousands of gallons. Excludes residual fuel, used in the generation of electrical power.]

Year reported 1/	All types	Gasoline	Diesel oil	
			Non-hwy.	Hwy. use
1970	754,632	235,178	58,129	8,029
1971	809,628	250,191	57,405	8,852
1972	827,825	261,452	65,163	9,523
1973	882,932	281,122	74,608	11,159
1974	824,653	270,267	75,124	11,539
1975	839,289	284,552	75,120	12,710
1976	850,261	295,704	79,884	13,561
1977	888,136	311,409	85,484	13,817
1978	917,380	324,702	99,755	15,233
1979	960,837	324,337	108,460	16,596
1980	939,766	312,896	101,719	17,765

Year reported 1/	Liq. pet. gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1970	814	274	450,474	214	1,519
1971	1,044	579	489,767	231	1,559
1972	1,231	702	487,743	264	1,747
1973	1,909	453	511,502	280	1,899
1974	2,093	789	463,728	312	801
1975	1,823	1,380	462,384	411	908
1976	1,858	1,054	456,819	464	917
1977	2,036	1,280	472,654	558	899
1978	1,821	1,216	473,270	445	938
1979	2,213	1,140	506,825	410	856
1980	2,448	1,140	502,544	338	917

1/ Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections & Distribution" (annual report).

Table 374.-- FUEL OIL AND KEROSENE DELIVERIES: 1978 AND 1979

[Thousands of barrels.]

Use	Distillate fuel oil		Residual fuel oil		Kerosene	
	1978	1979	1978	1979	1978	1979
Total	3,246	5,957	12,796	12,599	146	40
Heating and industrial	352	750	648	335	108	6
Residential	...	2	...	-	...	-
Commercial	...	259	...	16	...	6
Industrial	...	170	...	319	...	-
Farm	...	319	...	-	...	6
Oil company	30	581	553	379	-	-
Electric utility	523	278	9,819	10,407	-	-
Military	168	3,385	426	25	-	-
Railroad	2	2	-	-	-	-
Vessel bunkering	1,227	38	1,323	1,237	-	-
On-highway	360	399	-	-	-	-
Off-highway	495	182	-	-	-	-
Other	89	342	27	216	38	34

Source: U.S. Department of Energy, Energy Information Administration, "Deliveries of Fuel Oil and Kerosene in 1979," Energy Data Reports, DOE/EIA-0113(79), August 11, 1981.

Table 375.-- GASOLINE AVERAGE PRICES PER GALLON, FOR OAHU: 1973 TO 1981

[In dollars. Average prices include all applicable federal, state, and county taxes.]

Date	All types 1/	Leaded regular 2/	Unleaded regular 3/	Leaded premium 2/
1973: Oct.	...	0.452	...	0.487
Dec.	...	.477	...	.512
1974: June	...	.599	...	.632
Dec.	...	.599	...	.629
1975: June	...	.673	...	.710
Dec.	...	.691	...	.733
1976: Jan.	...	.685	0.696	.727
June	...	.684	.692	.720
Dec.	...	.702	.714	.743
1977: June	...	.723	.738	.764
Dec.	...	.722	.743	.768
1978: June	...	.741	.772	.798
Revised series 4/				
1978: June	0.778	.761	.765	.793
Dec.	.804	.778	.791	.821
1979: June	.957	.922	.956	.970
Dec.	1.150	1.087	1.164	1.175
1980: June	1.352	1.310	1.350	1.383
Dec.	1.407	1.348	1.413	1.441
1981: June	1.580	1.508	1.588	1.619

1/ Includes types not shown separately. Not calculated before June 1978.

2/ Survey initiated October 1973.

3/ Survey initiated January 1976.

4/ Not directly comparable to earlier data.

Source: U.S. Bureau of Labor Statistics, *Retail Prices and Indexes of Fuels and Utilities* (monthly, 1973-1978), *Consumer Prices: Energy* (monthly, 1979-forward), and printouts for 1978-1979; Hawaii State Department of Planning and Economic Development, *Gasoline Prices in Hawaii, 1920-1980* (Statistical Report 140, August 7, 1980), table 2.

Table 376.-- BUNKER OIL LADEN IN HONOLULU CUSTOMS DISTRICT ON VESSELS ENGAGED IN FOREIGN TRADE: 1977 TO 1979

[In barrels of 42 gallons.]

Year	Total	American vessels		Foreign vessels	
		Fuel oil	Diesel oil	Fuel oil	Diesel oil
1977	1,728,413	241,964	35,068	376,207	1,075,174
1978	2,049,939	261,467	18,943	632,127	1,137,402
1979	1,550,905	111,171	66,414	464,493	908,827

Source: U.S. Bureau of the Census, United States Foreign Trade, Bunker Fuels, Annual 1977 (FT810-77-13, May 1978), Annual 1978 (FT810-78-13, July 1979), and Annual 1980 [sic] (FT810-79-13, April 1980).

Table 377.-- BOILERS AND PRESSURE VESSELS: DECEMBER 31, 1980

Island	Power boilers	Heating boilers	Pressure vessels 1/
State total	674	2,657	4,746
Hawaii	73	237	729
Maui	63	208	450
Lanai	3	2	26
Molokai	4	30	22
Oahu	478	2,063	3,262
Kauai	53	117	257

1/ Five cubic feet or more.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupation Safety and Health, records.

Table 378.-- HYDROELECTRIC PLANTS: DECEMBER 1980

Island	Locations	Units	Capacity (kW)	Annual output (million kWh)
State total ...	13	18	17,350	91.60
Hawaii	3	5	4,150	21.25
Maui	3	5	5,300	21.75
Lanai and Molokai ..	-	-	-	-
Oahu	-	-	-	-
Kauai	7	8	7,900	48.60
Niihau	-	-	-	-

Source: Hawaii State Department of Planning and Economic Development and U.S Department of Energy, Hydroelectric Power in Hawaii (February 1981), p. 41.

Table 379.-- OCCUPIED HOUSING UNITS WITH SOLAR HEATING DEVICES, BY COUNTIES: JAN.-JUNE 1981

[Preliminary.]

County	Units sampled	All occupied housing units	Units with solar heating devices	
			Number	Percent
State total	2,985	285,775	18,862	6.6
Honolulu	1,534	225,940	11,783	5.2
Hawaii	672	29,302	1,364	4.7
Kauai	337	10,396	1,984	19.1
Maui	442	20,137	3,731	18.5

Source: Unpublished data from Hawaii State Department of Health, Hawaii Health Surveillance Program, compiled for State Energy Office.

Table 380.-- ELECTRICITY USE REDUCTIONS OF SOLAR AND HEAT PUMP WATER HEATER INSTALLATIONS ON OAHU: 1976 TO 1980

[These recorded changes in energy consumption include other unidentified changes in energy consumption habits not related to the installation of the solar or heat pump water heaters. These could include the installation or removal of other energy-consuming devices and other conservation efforts by the residents in these homes.]

Study release date and type of water heating device installed	Number of residences in study	Average monthly kwh usage		Percentage reduction in kwh usage
		Before installation	After installation	
March 16, 1979: 1/				
Solar, collectors under 50 sq. ft. ..	87	940	636	32
Solar, collectors between 50 and 60 sq. ft.	108	1,088	754	31
Solar, collectors over 60 sq. ft. ...	18	1,296	877	32
September 24, 1980: 1/				
Solar	50	1,030	700	32
January 30, 1981:				
Heat pump	101	1,068	821	23

1/ During the period of these studies, the average annual rainfall accumulation was 73 percent of normal (as recorded at Honolulu International Airport).

Source: Hawaiian Electric Company, "A Report on the Study of Solar Water installations on Oahu and Related KWH usage by those customers (October 1980), and "A report on the Study of Heat Pump Water Heater Installations on Oahu and Related KWH usage by these customers" (January 30, 1981).

Table 381.-- FEDERAL R&D OBLIGATIONS IN HAWAII: 1965 TO 1979

Fiscal year 1/	Millions of dollars
1965	41.5
1966	...
1967	...
1968	35.0
1969	37.7
1970	43.8
1971	38.3
1972	47.4
1973	47.9
1974	53.1
1975	43.0
1976	45.5
1977	36.9
1978	44.6
1979	40.8

1/ Fiscal years ended June 30 through 1976 and September 30 thereafter. State data were first compiled for fiscal 1965, and were not collected for 1966 and 1967.

Source: National Science Foundation, Division of Science Resources Studies, R&D Economic Studies Section, information provided January 25, 1980 and April 21, 1981.

Table 382.-- STATE AND LOCAL GOVERNMENT EXPENDITURES FOR RESEARCH AND DEVELOPMENT, BY CHARACTER OF WORK: FISCAL YEAR 1977

[Thousands of dollars.]

Character of work	State agency expenditures	Local government expenditures 1/
Total	3,370	740
Research and development	2,873	722
Basic	3	90
Applied	1,599	227
Development	1,271	405
R&D plant	497	18

1/ City and County of Honolulu.

Source: National Science Foundation, Research and Development in State and Local Governments, Fiscal Year 1977, NSF 79-327, pp. 5, 31a, and 38.

Table 383.-- R&D EXPENDITURES AT UNIVERSITIES AND COLLEGES: 1972 TO 1977

[In millions of dollars.]

Fiscal year	Total R&D expenditures	Federally financed R&D expenditures
1972	23,520	13,725
1973	24,846	15,382
1974	21,143	14,065
1975	24,596	15,540
1976	28,049	17,578
1977	28,900	17,945

Source: National Science Foundation, Academic Science 1972-77, Final Report NSF 80-313 (1980), pp. 32-33.

Table 384.-- PATENTS ISSUED TO HAWAII RESIDENTS: 1973 TO 1980

[Unless otherwise indicated, data include design, plant, and reissue patents.]

Year ended --	Patents
1973: Dec. 31 1/	50
1974: June 30	55
1975: June 30	61
1976: June 30	51
1977: Sept. 30	43
1978: Sept. 30	41
1979: Sept. 30	32
1980: Sept. 30	32

1/ Excludes reissue patents.

Source: U.S. Department of Commerce, Patent and Trademark Office, Commissioner of Patents and Trademarks Annual Report, Fiscal Year 1979, p. 31, and Fiscal Year 1980, p. 38.

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic.

Motor vehicle registration in Hawaii increased from 413,000 in 1970 to 506,000 in 1975 and 618,000 in 1980. Vehicle miles rose during the same period from 3.4 billion to 5.6 billion. Hawaii residents purchased 48,000 new passenger cars in 1979 and scrapped or shipped out approximately 28,000. By the end of 1980, 542,000 licensed drivers had access to 3,912 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 19.4 million in 1971 to 71.6 million in 1980. Registered bicycles numbered 108,000 in 1974 and 71,000 in 1980.

All scheduled interisland travel is now by air. Interisland steamer service was discontinued in 1949; hydrofoil service was initiated between Honolulu and other Island ports in 1975 and suspended early in 1978. In 1980, the two certified airlines and a number of air taxis reported 6.7 million interisland passengers, more than two times their 1970 total, and carried 69,000 tons of cargo. The State has 10 commercial airports, 14 general aviation, military or semi-private airports, 12 civilian heliports, 3,948 active pilots, and 530 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 400 in 1980, air arrivals increased during the same 21-year span from 224,000 to 4.3 million. Overseas cargo received in the State in 1978 amounted to 68,000 tons by air and 9.1 million tons by ship.

Undocumented State-registered vessels as of December 31, 1980 numbered 13,459, compared with 8,042 in 1970. Median length was 18 feet, and four-fifths were stored on land. There were also 1,143 documented vessels in the State in 1980, more than double the 1970 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions and Motor Vehicle Safety Office. Other sources include the U.S. Coast Guard, Civil Aeronautics Board, Federal Aviation Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Services, County finance departments, Cardinal Mailing Services, and individual transportation companies. Data for the entire period of record appear in Historical Statistics of Hawaii, Section 17. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1980, Sections 22 and 23.

Table 385.-- LENGTH OF STREETS AND HIGHWAYS, FREEWAYS, AND HIGHWAY TUNNELS, BY ISLANDS: DECEMBER 31, 1980

Island	Street and highway mileage 1/		
	Total	Paved	Unpaved
State total	3,912.12	3,591.06	321.06
Hawaii	1,485.52	1,320.24	165.28
Maui	593.11	522.70	70.41
Lanai	45.83	31.83	14.00
Molokai	126.90	114.90	12.00
Oahu	1,322.27	1,285.67	36.60
Kauai	338.49	315.72	22.77
Niihau	-	-	-

Island	Freeway mileage 2/	Lane-miles 3/	Tunnel length (feet)
State total	36.27	2,406.79	11,220
Hawaii	-	855.94	-
Maui	-	360.74	317
Lanai	-	25.91	-
Molokai	-	104.55	-
Oahu	36.27	819.98	10,903
Kauai	-	239.67	-
Niihau	-	-	-

1/ Oahu data revised.

2/ Included in street and highway figures.

3/ These lane mileages are only for State routes and Federal-Aid County routes. The lane mileages for the rest of the County routes are not available.

Source: Hawaii State Department of Transportation, data provided May 14, 1981.

Table 386.-- HIGHWAY BRIDGES, BY ISLANDS: 1981

Island	Number of bridges	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
Hawaii ...	245	Hakalau	775	Nanue	208
Maui	143	Kalialinui	324	Uaoa	79
Lanai	-	None	...	None	...
Molokai ..	19	Manawainui	325	Manawainui	50
Oahu	588	Pearl City Viad. .	5,946	Kipapa	156
Kauai	81	Kalihiwai	798	Wahiawa, Koloa ..	90
Niihau ...	-	None	...	None	...

Island	Oldest bridge in use			
	Route name	Feature intersected	Year built	Length (feet)
Hawaii ...	Mamalahoa Hwy. ..	Puuokalepa Stream ..	1904	33
Maui	Hana Hwy.	Mokulehua Stream ...	1908	48
Lanai	None	None	...	...
Molokai ..	Maunaloa Hwy. ...	Manawainui Stream ..	1939	325
Oahu	Waipahu St.	Waikele Stream	1905	54
Kauai	Maluhia Road	Wailana Stream 1/ ..	1910	(1/)
Niihau ...	None	None	...	...

1/ There are two bridges over Wailana Stream, both built in 1910: a 28-foot span over Branch No. 3 and a 46-foot span over Branch No. 4. Several former plantation bridges now owned by the State may be older but their construction dates are unknown.

Source: Hawaii State Department of Transportation, information provided February 2, 1981 and March 18, 1981.

Table 387.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLANDS: DECEMBER 31, 1980

Type of facility and control	State total	Ha-waii	Maui	Lanai	Molo-kai	Oahu	Kauai
Signalized intersections	586	30	14	-	-	537	5
Under State control 1/	241	5	14	-	-	222	-
Under County control	345	25	-	-	-	315	5
Metered on-street parking spaces	3,442	458	-	-	-	2,984	-
Under State control	84	-	-	-	-	84	-
Dept. of Acctg. & General Services	8	-	-	-	-	8	-
Dept. of Transportation	76	-	-	-	-	76	-
Under County control	3,358	458	-	-	-	2,900	-
Metered off-street parking spaces	4,308	291	26	-	16	3,887	88
Under State control	1,587	110	26	-	16	1,347	88
Dept. of Acctg. & General Services	435	56	26	-	-	328	25
Dept. of Transportation	1,152	54	-	-	16	1,019	63
Under County control	2,721	181	-	-	-	2,540	-

1/ All under the Department of Transportation.

Source: Hawaii State Department of Accounting and General Services, Hawaii State Department of Transportation, City and County of Honolulu Department of Transportation Services, Hawaii County Department of Public Works, Kauai County Department of Public Works, and Maui County Department of Public Works.

Table 388.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1970 TO 1980

[Taxable and non-taxable, including military non-resident exempt vehicles. Data for 1970-1978 have been revised from the 1979 edition, table 280.]

Year	All vehicles registered	Motor vehicles								Trailers and semi-trailers
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor scooters 2/	
1970	424,409	412,930	355,577	114	1,136	38,029	965	6,346	10,763	11,479
1971	443,563	431,419	371,705	100	1,154	46,168	1,629	774	9,889	12,144
1972	468,410	454,829	390,062	97	1,347	50,451	1,696	776	10,400	13,581
1973	499,525	484,521	413,839	99	1,724	56,002	1,747	767	10,343	15,004
1974	510,627	495,037	420,228	90	1,951	59,759	1,796	766	10,447	15,590
1975	522,421	506,434	430,043	88	2,186	63,134	1,877	733	8,373	15,987
1976	551,438	535,217	452,616	82	2,624	68,215	1,866	680	9,134	16,221
1977	580,380	563,964	475,368	81	2,888	73,762	1,848	609	9,408	16,416
1978	599,990	583,601	489,878	84	3,052	78,447	1,809	560	9,771	16,389
1979	626,841	610,570	510,353	91	3,267	84,578	1,784	511	9,986	16,271
1980	633,846	617,571	514,669	85	3,366	87,542	1,725	488	9,696	16,275

Footnotes and source on next page.

Table 388.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1970 TO 1980 -- Con.

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the data shown here have been adjusted (by the Hawaii State Department of Transportation, Motor Vehicle Safety Office) to continue inclusion of such vehicles in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations, as provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 389.-- MOTOR VEHICLES REGISTERED, BY COUNTIES: 1970 TO 1980

[Taxable and non-taxable, including military non-resident exempt vehicles. Includes passenger cars, buses, trucks, and motorcycles but excludes trailers and semi-trailers.]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1970	412,930	325,834	39,223	18,175	29,698
1971	431,419	338,219	42,227	19,592	31,381
1972	454,829	354,544	45,316	20,766	34,203
1973	484,521	375,763	49,053	22,167	37,538
1974	495,037	381,502	51,064	22,802	39,669
1975	506,434	387,558	53,124	23,764	41,988
1976	535,217	406,149	57,151	25,300	46,617
1977 1/ ...	563,964	424,892	60,374	26,920	51,778
1978	583,601	436,347	63,025	27,614	56,615
1979	610,570	452,449	67,718	29,492	60,911
1980	617,571	454,316	70,047	30,604	62,604

1/ Corrected from 1980 edition, table 343.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations, as provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 390.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES: 1970 TO 1980

[Taxable and non-taxable, including military non-resident exempt vehicles. Excludes ambulances, hearses, buses, trucks, motorcycles, and trailers.]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1970	355,577	285,384	31,293	14,842	24,058
1971	371,705	296,985	33,490	15,784	25,446
1972	390,062	310,144	35,623	16,716	27,579
1973	413,839	327,638	38,299	17,766	30,136
1974	420,228	331,266	39,428	18,135	31,399
1975	430,043	336,953	41,048	18,873	33,169
1976	452,616	352,148	43,826	19,882	36,760
1977	475,368	367,398	46,072	21,001	40,897
1978	489,878	376,260	47,764	21,411	44,443
1979 1/ ...	510,353	388,788	51,159	22,790	47,616
1980	514,669	389,576	52,682	23,561	48,850

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the 1979 and subsequent data shown here have been adjusted (by the Hawaii State Department of Transportation, Motor Vehicle Safety Office) for comparability with the earlier data.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations, as provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 391.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1980

[Taxable and non-taxable, including military non-resident exempt vehicles.]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	633,846	463,547	73,529	32,481	64,289
Motor vehicles	617,571	454,316	70,047	30,604	62,604
Passenger vehicles	514,669	389,576	52,682	23,561	48,850
Ambulances 1/	85	63	11	7	4
Buses	3,366	2,461	333	172	400
Trucks	87,542	53,122	15,700	6,404	12,316
Truck tractors 2/	1,725	956	421	130	218
Truck cranes 3/	488	203	141	44	100
Motorcycles 4/	9,696	7,935	759	286	716
Trailers and semi-trailers ..	16,275	9,231	3,482	1,877	1,685

1/ Including hearses and patrol wagons.
2/ Including tow trucks.
3/ Including miscellaneous vehicles.
4/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulation, as revised by the Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 392.-- MOTOR VEHICLE WEIGHT, BY KIND OF VEHICLE: 1979

Vehicle weight	Passenger cars	Trucks	Truck trailers	Buses	Other vehicles
Total	537,887	89,131	1,847	3,439	612
Under 2,000 lb.	52,941	70	12	4	9
2,000 to 2,999 lb.	235,367	27,063	1	117	9
3,000 to 3,999 lb.	179,034	31,158	9	83	16
4,000 to 4,999 lb.	65,218	18,434	6	994	45
5,000 to 5,999 lb.	5,036	2,913	19	442	58
6,000 to 9,999 lb.	239	4,646	265	129	192
10,000 to 14,999 lb.	16	2,525	673	348	109
15,000 to 19,999 lb.	12	1,205	536	378	83
20,000 lb. and over	24	1,117	326	944	91
Not reported	-	-	-	-	-
Median weight (lb.) 1/	2,916	3,558	15,349	8,273	9,323

1/ Based on more detailed distributions.
Source follows next table.

Table 393.-- MODEL YEAR OF MOTOR VEHICLES: 1979

Model year	Percent
All vehicles	100.0
1950 or earlier	0.5
1951 to 1960	1.1
1961 to 1965	4.7
1966 to 1970	20.5
1971 to 1975	33.8
1976 to 1980	39.5
Median year	1974

Source: Hawaii State Department of Planning and Economic Development, Estimating Annual Vehicle-Miles Traveled (VMT) in the State of Hawaii (1981), table 8 and underlying data.

Table 394.-- INVENTORY AND CHARACTERISTICS OF PRIVATE AND COMMERCIAL TRUCKS IN HAWAII: 1977

[Figures do not include government-owned vehicles, ambulances, buses, motor homes, farm tractors, open jeep models, unpowered trailer units, and trucks reported to have been junked or wrecked prior to 1977.]

Vehicular and operational characteristics	Number of trucks (thousands)	Percent of total trucks
Total trucks	70.0	100.0
Major use:		
Personal transportation	35.0	50.0
Construction	10.1	14.4
Agriculture	8.2	11.7
Retail and wholesale trade	6.4	9.1
Services	5.5	7.9
Other	4.9	7.0
Body type:		
Pickup	48.4	69.1
Panel or small van	11.2	16.0
Platform	5.1	7.3
Other	5.2	7.4
Vehicle size (gross vehicle weight):		
Light (10,000 pounds or fewer)	62.3	89.0
Medium (10,001 to 19,500 pounds)	2.7	3.9
Light-heavy (19,501 to 26,000 pounds)	2.1	3.0
Heavy-heavy (26,001 pounds or more)	3.0	4.3
Vehicle acquisition:		
Purchased new	38.2	54.6
Purchased used	29.3	41.9
Leased and not reported	2.4	3.4
Year model:		
1 to 4 years old	22.3	31.9
5 to 8 years old	24.0	34.3
Over 8 years old and not reported	23.7	33.9
Annual miles traveled:		
Fewer than 5,000	17.1	24.4
5,000 to 9,999	20.8	29.7
10,000 to 19,999	27.3	39.0
20,000 or more	4.9	7.0

Continued on next page.

Table 394.-- INVENTORY AND CHARACTERISTICS OF PRIVATE AND COMMERCIAL TRUCKS IN HAWAII: 1977 -- Con.

Vehicular and operational characteristics	Number of trucks (thousands)	Percent of total trucks
Fuel type:		
Gasoline	66.8	95.4
Diesel	2.9	4.1
LPG or other	.3	0.4
Miles per gallon:		
8.9 or fewer	7.1	10.1
9 to 11.9	11.0	15.7
12 to 14.9	18.1	25.9
15 to 19.9	14.3	20.4
20 or more	13.5	19.3
Not reported	5.9	8.4

Source: U.S. Department of Commerce, Bureau of the Census, 1977 Census of Transportation: Truck Inventory and Use Survey, Hawaii, TC77-T-12 (September 1979).

Table 395.-- REGISTERED TAXIS AND BICYCLES, BY ISLANDS: 1979 AND 1980

[As of December 31.]

Island	Taxis		Bicycles	
	1979	1980	1979	1980
State total	1,922	1,911	77,979	70,680
Hawaii	66	66	3,223	2,702
Maui	101	114	2,266	2,254
Lanai	1	2	127	140
Molokai	3	2	112	167
Oahu	1,706	1,690	70,362	64,112
Kauai	45	37	1,889	1,305
Niihau	-	-	-	-

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Table 396.-- COMPONENTS OF CHANGE IN PASSENGER VEHICLE REGISTRATION: 1971 TO 1980

Year	Number of passenger vehicles 1/			Out-shipments of automobiles and auto parts (tons)
	Net increase since previous year	New cars registered	Scrapped or shipped out	
1971 ..	16,128	35,984	19,856	16,157
1972 ..	18,357	37,484	19,127	14,394
1973 ..	23,777	41,919	18,142	16,420
1974 ..	6,389	30,932	24,543	31,423
1975 ..	9,815	33,693	23,878	21,396
1976 ..	22,573	38,006	15,433	18,627
1977 ..	22,752	44,482	21,730	24,846
1978 ..	14,510	44,383	29,873	19,255
1979 ..	20,475	48,154	27,679	(NA)
1980 ..	4,316	(NA)	(NA)	(NA)

NA Not available.

1/ Revised from The State of Hawaii Data Book 1980, table 350.

Source: Net increase from Hawaii State Department of Transportation, Motor Vehicle Safety Office, records. New cars registered from R. L. Polk & Co. data for 1971-1978 in the Federal Reserve Bank of San Francisco, Western Economic Indicators, November-December 1979, p., A-10, and data for 1979 from Cardinal Mailing Services, Ltd. Vehicles scrapped or shipped out of State computed as a residual. Outshipment tonnage from U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual).

Table 397.-- NEW PASSENGER CAR REGISTRATIONS, BY ORIGIN AND MAKE, FOR THE CITY AND COUNTY OF HONOLULU: 1979 AND 1980

Origin and make of vehicle	1980	1979
Total	31,934	36,245
Domestic 1/	12,334	18,801
Buick	1,218	1,397
Chevrolet	2,469	4,278
Dodge	410	1,255
Ford	3,297	5,391
Mercury	885	1,478
Oldsmobile	699	955
Plymouth	1,103	1,008
Pontiac	828	1,324
Other makes	1,425	1,715
Foreign 1/	19,600	17,444
Datsun	3,881	3,460
Honda	2,678	2,403
Mazda	3,370	2,382
Subaru	1,147	616
Toyota	5,435	4,318
Volkswagen	1,680	2,553
Other makes	1,409	1,712

1/ Vehicles manufactured abroad but sold under domestic nameplates are included in the domestic subtotals.

Source: Cardinal Mailing Services, Ltd., records.

Table 398-- HAWAII DRIVERS LICENSES IN FORCE: 1973 TO 1980

[As of December 31.]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1973	495,043	399,672	45,530	20,033	32,808
1974	509,236	409,977	43,907	20,815	34,537
1975	531,375	425,370	46,891	22,153	36,961
1976	541,180	429,559	49,184	22,662	39,775
1977	541,353	424,242	51,773	23,557	41,781
1978	541,263	420,005	54,504	24,381	43,373
1979 1/	543,202	418,751	53,735	25,606	45,110
1980	541,842	411,102	57,780	26,333	46,627

1/ Revised from 1980 edition, table 348.
Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 399.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES: 1970 TO 1980

Year and county	Highway fuel consumption 1/		Vehicle miles of travel 2/	
	Total (1,000 gallons)	Gallons per vehicle 3/	Total (millions)	Per vehicle 3/
1970	243,482	602	3,408.9	8,428
1971	261,476	615	3,660.7	8,609
1972	268,407	601	3,757.7	8,414
1973	289,847	608	4,057.9	8,511
1974	279,996	574	3,919.9	8,038
1975	296,160	590	4,146.2	8,263
1976	308,151	574	4,314.1	8,041
1977	324,449	578	4,542.3	8,088
1978	338,440	583	4,738.2	8,164
1979	339,989	560	4,759.9	7,834
1980	330,734	536	5,570.0	9,019

Footnotes and source follow next table.

Table 400.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, BY COUNTIES: 1980

County	Highway fuel consumption 1/		Vehicle miles of travel 2/	
	Total (1,000 gallons)	Gallons per vehicle 3/	Total (millions)	Per vehicle 3/
State total ..	330,734	536	5,570.0	9,019
Honolulu	242,152	537	3,968.9	8,800
Hawaii	40,598	570	699.9	9,821
Kauai	15,634	489	331.0	10,361
Maui	32,350	511	570.2	8,999

1/ Includes gasoline, gasohol, diesel oil, and butane gas.

2/ Beginning in 1980, based on weighted annual average vehicle miles traveled per type of vehicle by county of inspection. Data for 1979 and earlier years based on an average of 14 miles per gallon and thus not comparable to 1980 and later figures.

3/ Motor vehicle total includes both taxable and nontaxable vehicles, and all military nonresident exempt vehicles. Data include passenger cars, buses, trucks, and motorcycles but exclude trailers and semi-trailers.

Source: Hawaii State Department of Transportation, Highways Division, annual releases and records.

Table 401.-- ANNUAL VEHICLE-MILES TRAVELED PER VEHICLE, BY COUNTIES: 1979

Subject	State total	Hawaii	Maui	Honolulu	Kauai
PERCENT DISTRIBUTION					
Total	100.0	100.0	100.0	100.0	100.0
Under 3,650 miles	26.5	29.4	32.2	25.2	29.9
3,650 to 7,299 miles	25.0	22.6	21.4	26.2	19.1
7,300 to 10,949 miles	21.4	18.6	16.6	22.7	15.9
10,950 to 14,599 miles	12.2	10.8	11.4	12.7	9.9
14,600 to 18,249 miles	6.2	6.2	7.8	5.9	7.2
18,250 to 27,374 miles	5.4	7.5	8.4	4.4	11.0
27,375 miles and over	3.3	4.8	2.0	3.0	7.0
Median miles	7,081	6,977	6,686	7,105	7,530
Miles per gallon	16.2	15.2	15.8	16.1	20.0
AVERAGE MILEAGE BY VEHICLE TYPE					
Passenger car	8,862	9,443	8,404	8,726	11,360
Truck	8,891	8,678	8,047	9,016	10,581
Motorcycle	7,580	6,185	9,176	4,589	(NA)
Bus	18,120	9,702	11,603	19,950	22,018
U-drive	11,739	14,341	13,452	8,533	18,435

NA Not available.

Source: Hawaii State Department of Planning and Economic Development, Estimating Annual Vehicle-Miles Traveled (VMT) in the State of Hawaii (1981), tables 1, 3, 4, and 5. Based on a sample of data from the 1978 and 1979 safety inspection files.

Table 402.-- ANNUAL AVERAGE OF QUARTERLY HIGHWAY SPEED MONITORING DATA: OCTOBER 1978 TO SEPTEMBER 1979

Speed measure	Interstate		Multi-lane divided	2-lane rural
	Urban	Rural		
Average speed (miles per hour)	54.8	55.7	53.3	53.2
Median speed (miles per hour)	55.2	55.9	53.2	53.0
85th percent speed (miles per hour) ...	62.2	62.9	59.7	59.8
Percent exceeding --				
55 miles per hour	51	53	36	36
60 miles per hour	23	25	13	15
65 miles per hour	7	7	4	6

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, 1979, p. 142.

Table 403.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1970 TO 1980

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1970	18,172	136	11,743	153
1971	18,048	131	10,934	154
1972	18,259	126	11,141	146
1973	19,544	119	11,860	136
1974	14,855	119	10,022	129
1975	13,895	130	10,554	146
1976	14,860	137	11,667	149
1977	16,188	139	12,245	154
1978	18,545	175	13,327	195
1979	19,158	183	13,963	205
1980	18,301	165	13,026	184

1/ Traffic accidents with damage of $300 or more ($100 or more before July 1, 1974) or causing injury or death.

Source follows next table.

Table 404.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, BY COUNTIES: 1980

County	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
State total ..	18,301	165	13,026	184
Honolulu	13,636	102	9,465	112
Hawaii	2,111	27	1,735	29
Kauai	822	15	555	17
Maui	1,732	21	1,271	26

1/ Traffic accidents with damage of $300 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Major Traffic Accidents, State of Hawaii (annual) and records.

Table 405.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU: 1978 TO 1980

[Calendar year data for City and County of Honolulu bus system. Monthly pass program implemented November 1, 1979; figures are estimates for 1979 and 1980.]

Fare category	1978	1979	1980
All passengers	67,746,396	68,865,260	71,601,744
Adults, full fare	32,873,747	33,007,200	36,799,259
Students	15,370,817	15,815,950	16,765,875
School subsidy	62,610	75,172	150,972
Stadium express	14,824	15,795	18,162
Senior citizens	7,461,545	7,564,150	9,301,724
Chartered service	22,651	9,293	10,015
Free transfers	11,940,202	12,377,700	8,555,737

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 406.-- BUS SERVICE, FOR OAHU: 1970 TO 1980

[Service provided by Honolulu Rapid Transit Co., Ltd., through December 31, 1970 and by City and County of Honolulu beginning March 1, 1971.]

Year	Number of buses, Dec. 31	Bus mileage 1/	Passengers 2/
1970 3/	141	4,611,357	30,434,906
1971 4/	108	2,986,724	19,413,259
1972	143	4,964,044	31,031,764
1973	315	7,973,393	36,741,009
1974	333	11,670,774	50,519,626
1975	350	13,328,501	58,295,732
1976	350	15,547,127	64,585,334
1977	350	16,242,537	66,311,882
1978	350	15,991,798	67,746,396
1979	350	15,915,000	68,765,000
1980	400	16,579,392	71,601,744

1/ All categories of service through 1978 and revenue vehicle miles (estimated) thereafter. Calendar year data.

2/ All categories of service through 1978 and revenue passengers (including senior citizens) as estimated thereafter. Calendar year data.

3/ Passenger total excludes 2,277,502 zone fares.

4/ Bus service by HRT was terminated by a strike that began January 1. The City and County of Honolulu commenced service March 1.

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 407.-- BUS REVENUES AND FARES, FOR OAHU: 1970 TO 1980

Year	Revenues (dollars)	Cash fares (cents)	
		Full	School
HONOLULU RAPID TRANSIT CO., LTD. 1/			
1970	4,970,000	25	15
CITY AND COUNTY OF HONOLULU 2/			
1971 3/	1,246,351	25	10
1972	4,445,817	25/50	10/25
1973	5,254,908	25/50	10/25
1974	6,807,147	25	10
1975	7,990,505	25	10
1976	9,007,134	25	10
1977	9,629,349	25	10
1978	9,686,876	25	10
1979	9,931,000	25	10
1980 4/	14,817,639	50	25

1/ Calendar year data for revenues and December 31 data for cash fares.

2/ Fiscal years ending June 30 for revenues; June 30 data for cash fares.

3/ Service commenced March 1; revenues are for 4-month period.

4/ New fare structure, including a monthly pass program, effective November 1, 1979. Regular monthly passes cost $15.00; student passes $7.50.

Source: HRT data from Hawaii State Department of Regulatory Agencies, Public Utilities Division, records; other data from MTL, Inc., provided by the City and County of Honolulu, Department of Transportation Services.

Table 408.-- CHARACTERISTICS OF TRAVEL TO WORK, FOR OAHU: 1976

Major mode of transportation	Number of workers (thousands)	Median distance from home to work (miles)	Median time taken to get to work (minutes)
All workers	308	...	...
Not working at home	298	6.5	21.6
Workers using vehicles	286	7.0	22.2
Auto	230	7.2	21.1
Truck	17	12.6	26.8
Auto or truck	246	7.4	21.4
Drives alone	171	7.3	20.8
Carpool	75	7.7	23.3
Shares driving	15	11.2	26.9
Drives others	29	8.5	25.5
Rides with someone	31	5.5	19.8
Public transportation 1/	34	4.8	29.0
Bus	34	4.9	29.1
Other means 2/	6	3.3	16.4
Bicycle	3	...	...
Walks only	12	0.6	9.3
Works at home	4	...	...
Not reported	6	5.5	18.2

1/ Includes workers using taxicabs.

2/ Includes workers using motorcycles and all other means not listed.

Source: U.S. Bureau of the Census, "Selected Characteristics of Travel to Work in 20 Metropolitan Areas: 1976," Current Population Reports, Special Studies, Series P-23, No. 72, September 1978.

Table 409.-- STEAM RAILROAD MILEAGE AND PASSENGERS: 1970 TO 1980

Calendar year	Miles of track	Passengers
1970 and 1971 1/	6	341,882
1972 2/	6	(NA)
1973 3/	6	35,079
1974	6	62,619
1975	6	70,974
1976	6	80,362
1977	6	85,933
1978	6	94,115
1979	6	103,206
1980	6	111,600

NA Not available.

1/ The Lahaina, Kaanapali & Pacific Rail Road commenced service on May 10, 1970. Previously, rail passenger service had been available on Maui until 1936, Hawaii until 1946, and Oahu until 1947.

2/ Service suspended October 10, 1972-June 29, 1973.

3/ Service resumed June 30, 1973.

Source: Lahaina, Kaanapali & Pacific Rail Road, records.

Table 410.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: DECEMBER 31, 1980

Island	Airports 1/				Heliports 2/	
	State		Military	Semi-private	State (all commercial)	Semi-private
	Commercial	General aviation				
State total	10	4	7	3	2	10
Hawaii	3	1	1	1	-	2
Maui	2	-	-	1	-	2
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	2	-	-	-	-	-
Oahu	1	2	3	-	1	-
Kauai	1	1	1	1	1	6
Niihau	-	-	-	-	-	-
French Frigate Shoals	-	-	1	-	-	-
Kure Atoll	-	-	1	-	-	-

1/ Excludes private airports (not available).

2/ Excludes military and private heliports (not available).

Source: Hawaii State Department of Transportation, Airports Division, information provided April 2, 1981.

Table 411.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS: 1970 TO 1980

[An aircraft operation is an aircraft arrival or departure.]

Year	Honolulu International Airport	General Lyman Field, Hilo	Kahului Airport
1970	300,629	52,183	77,451
1971	294,874	56,167	76,768
1972	297,861	50,333	75,467
1973	309,144	48,138	75,478
1974	305,724	47,715	75,186
1975	319,781	51,145	77,062
1976	320,565	52,679	90,455
1977	329,926	60,377	100,655
1978	379,106	52,677	125,291
1979	412,739	51,703	127,477
1980	375,408	49,969	111,573

Source: Hawaii State Department of Transportation, Airports Division, tabular releases and records.

Table 412.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1980

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	375,408	121,528	76,273	145,215	32,392
Gen. Lyman	49,969	14,165	8,389	16,598	10,817
Kahului	111,573	40,708	28,866	34,701	7,298
Lihue	62,829	23,999	24,308	13,037	1,485
Keahole	66,944	13,895	14,953	28,354	9,742
Molokai	67,761	4,264	45,338	13,063	5,096

Source: Hawaii State Department of Transportation, Airports Division, information provided April 2, 1981.

Table 413.-- ACTIVE PILOTS AND CIVIL AIRCRAFT: 1970 TO 1980

Year	Active pilots, Dec. 31 1/	U.S. active civil aircraft, Dec. 31	
		Air carrier	General aviation 2/
1970	2,218	20	241
1971	2,409	17	249
1972	2,526	(NA)	(NA)
1973	2,786	291	
1974	2,956	16	308
1975	2,902	17	341
1976	3,037	21	365
1977	3,241	21	541
1978	3,586	18	475
1979	3,972	(NA)	530
1980	3,948	(NA)	(NA)

NA Not available.

1/ Data for 1971 and 1973-1978 include active pilots in American Samoa, Guam, and the Trust Territory as well as those in Hawaii.

2/ Data for 1977-1979 based on sample surveys with standard errors of 255 (in 1977), 262 (in 1978), and 130 (in 1979).

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual), and records.

Table 414.-- TRANSPACIFIC AIRLINES SERVING HAWAII: JUNE 30, 1981

[Limited to airlines carrying revenue passengers.]

Category	Number
Total with passengers	22
Certificated airlines	17
Supplemental carriers	5

Source: Hawaii Visitors Bureau, data provided June 30, 1981.

Table 415.-- TRANSPACIFIC AND INTERISLAND AIR PASSENGER MOVEMENTS: 1970 TO 1980

[Calendar years. Data include both revenue and non-revenue passengers.]

Year	Transpacific passengers			Inter-island passenger arrivals 1/
	Arrivals	Departures	Through	
1970	2,190,809	2,158,577	893,890	2,992,777
1971	2,296,119	2,304,570	729,237	3,380,031
1972	2,540,472	2,550,199	733,362	4,093,338
1973	2,866,003	2,913,446	870,378	4,809,097
1974	3,009,769	2,964,992	885,122	5,174,914
1975	3,181,580	3,134,774	956,576	5,321,616
1976	3,496,645	3,432,908	816,915	5,873,138
1977	3,667,756	3,615,717	714,150	6,413,847
1978	4,131,466	4,054,544	854,276	7,341,815
1979	4,245,032	4,148,645	971,452	7,578,877
1980	4,270,633	4,174,739	1,118,987	6,737,894

1/ Air taxi service was seriously underreported before 1977.

Source: Hawaii State Department of Transportation, Airports Division, tabular releases and records.

Table 416.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1970 TO 1980

Subject	1970	1979	1980
Number of airlines 1/	2	2	2
Aircraft revenue departures 2/ (1,000)	72.4	85.8	77.8
Aircraft revenue miles 2/ (1,000)	8,147	10,303	9,229
Average airborne speed 2/ (miles per hour)	287	316	318
Average available seats per aircraft 2/	101.4	130.4	131.0
Revenue passengers: 2/			
Enplanements (1,000)	2,643	6,766	5,981
Load factor (percent)	46.2	65.2	63.7
Revenue ton-miles (1,000):			
Freight plus express	3,314	2,688	2,544
Mail	1,038	1,090	977
Number of employees 3/	1,943	2,743	2,689
Operating revenues ($1,000)	44,391	155,010	180,498
Operating profit or loss ($1,000)	469	2,011	2,944
Average passenger revenues per revenue passenger-mile 2/ (cents)	11.3	17.2	22.6
Average freight revenues per revenue ton-mile 2/ (dollars)	0.70	1.73	2.06

1/ Aloha Airlines, Inc., and Hawaiian Airlines, Inc.

2/ Scheduled service only.

3/ December data.

Source: Civil Aeronautics Board, Handbook of Airline Statistics 1973, and CAB Form 41 schedules submitted by air carriers to CAB.

Table 417.-- AIR CARGO AND AIRMAIL: 1970 TO 1980

[In thousands of pounds.]

Calendar year	Overseas air cargo		Overseas airmail		Interisland 1/	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1970	37,553	54,285	21,362	18,109	52,139	14,141
1971 2/	67,131	116,591	17,915	24,883	51,389	14,332
1972 3/	55,908	108,178	16,665	22,739	59,900	14,774
1973	57,494	87,834	16,123	21,001	69,710	16,453
1974	79,054	96,393	16,185	21,528	79,576	16,594
1975	95,287	112,338	36,934		81,515	17,830
1976	118,478	136,017	39,407		86,818	19,024
1977	132,401	133,352	36,938		82,676	17,065
1978	139,004	135,347	37,061		82,872	15,199
1979	121,702	121,205	17,497	17,577	118,555	15,364
1980	130,586	114,673	21,105	19,581	138,008	13,576

1/ Air taxi service seriously underreported before 1977.

2/ Data reflect the shipping strike of July 1, 1971 - October 6, 1971.

3/ Data reflect the shipping strikes of January 17 - February 19, and October 25 - December 7, 1972.

Source: Hawaii State Department of Transportation, Airports Division, tabular releases and records.

Table 418.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1980

Airport	Passengers 1/		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	4,245,032	4,148,645	121,205	121,702	17,577	17,497
Honolulu	4,152,767	4,022,440	115,818	100,627	17,577	17,147
Gen. Lyman	92,265	126,205	5,387	21,075	-	350
INTERISLAND						
Total	7,578,877	7,578,877	118,555	118,555	15,364	15,364
Honolulu	3,141,669	3,217,841	39,554	70,738	5,120	9,555
Gen. Lyman	624,237	543,020	18,970	23,995	2,728	1,865
Upolu	1,089	1,021	-	-	-	-
Waimea-Kohala ...	13,471	11,661	379	986	-	-
Keahole	618,403	660,309	8,696	4,565	1,593	713
Kahului	1,684,816	1,662,395	33,388	10,366	3,412	1,717
Hana	14,865	15,044	2	1	-	-
Kaanapali	58,901	60,058	-	-	8	-
Molokai	134,925	124,204	1,226	767	404	95
Kalaupapa	4,456	3,853	195	16	18	5
Lanai	25,641	24,833	852	120	45	31
Lihue	1,249,221	1,247,285	15,268	6,990	2,036	1,381
Other airports ..	7,183	7,353	25	11	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,118,987, all through Honolulu International Airport).

Source: Hawaii State Department of Transportation, Airports Division, data supplied April 2, 1981.

Table 419.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1978

[Top city pairs originating or terminating passengers and revenue passenger-miles, ranked by passengers. Data limited to domestic operations in scheduled service. Figures are combined totals in both directions.]

City pair in both directions 1/ (in order of passenger rank)	Inter-city distance (miles)	Passenger		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Lihue	102	10	845	317	87,425
Honolulu-Kahului	100	14	734	371	73,557
Honolulu-Los Angeles	2,569	23	549	7	1,421,096
Honolulu-Hilo	216	30	495	238	109,964
Honolulu-San Francisco	2,397	67	315	14	773,967
Honolulu-Kona	169	78	277	555	48,437
Honolulu-Seattle	2,679	180	159	38	440,066
Honolulu-New York	4,973	191	154	13	775,073
Kahului-Los Angeles	2,499	192	153	46	409,580
Honolulu-Chicago	4,251	234	125	27	535,194
Lihue-Los Angeles	2,629	312	96	81	258,467
Kahului-San Francisco	2,338	332	92	96	229,989
Honolulu-Portland	2,603	361	85	95	230,178
Honolulu-Washington	4,833	736	44	100	215,697
Honolulu-Boston	5,095	762	42	98	216,436

1/ Includes all cities in Hawaii included in top 100 U.S. city pairs, as ranked either by number of passengers or number of passenger-miles.

Source: Civil Aeronautics Board, Domestic Origin-Destination Survey of Airline Passenger Traffic, Vol. XI-4-1, Fourth Quarter 1978.

Table 420.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1979 TO 1981

Subject	Effective date of change in fare					
	Apr. 16, 1979	Aug. 1, 1979	Aug. 8, 1979	Oct. 1, 1979	Nov. 1, 1979	Jan. 1 1980
First class, F 1/	225.09	235.09	247.10	270.10	280.11	302.12
Fare	222.00	232.00	244.00	267.00	277.00	299.00
Tax	3.09	3.09	3.10	3.10	3.11	3.12
Coach, weekend, YW 1/ ..	156.06	163.06	171.06	187.07	194.08	209.08
Fare	153.00	160.00	168.00	184.00	191.00	206.00
Tax	3.06	3.06	3.06	3.07	3.08	3.08
Coach, weekday, YX 1/ ..	141.05	148.06	156.06	172.06	184.07	199.08
Fare	138.00	145.00	153.00	169.00	181.00	196.00
Tax	3.05	3.06	3.06	3.06	3.07	3.08
Economy, weekend, KW 1/	149.06	155.06	163.06	179.07	186.07	(3/)
Fare	146.00	152.00	160.00	176.00	183.00	(3/)
Tax	3.06	3.06	3.06	3.07	3.07	(3/)
Economy, weekday, KX 1/	134.05	140.05	148.06	164.06	176.07	(3/)
Fare	131.00	137.00	145.00	161.00	173.00	(3/)
Tax	3.05	3.05	3.06	3.06	3.07	(3/)
Aircraft	B-747	B-747	B-747	B-747	B-747	B-747
Flight time 2/	5:02	5:02	5:02	5:02	5:02	5:02

Continued on next page.

Table 420.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHT BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1979 TO 1981 -- Con.

Subject	Effective date of change in fare					
	June 1, 1980	Aug. 1, 1980	Oct. 1, 1980	Jan. 20, 1981	Mar. 31, 1981	June 17, 1981
First class, F 1/	319.13	351.14	365.11	384.12	415.12	425.13
Fare	316.00	348.00	365.00	384.00	415.00	425.00
Tax	3.13	3.14	0.11	0.12	.12	.13
Coach, weekend, YW 1/ .	221.09	243.10	252.08	265.08	286.09	296.09
Fare	218.00	240.00	252.00	265.00	286.00	296.00
Tax	3.09	3.10	0.08	0.08	0.09	0.09
Coach, weekday, YX 1/ .	211.08	233.09	252.08	265.08	286.09	296.09
Fare	208.00	230.00	252.00	265.00	286.00	296.00
Tax	3.08	3.09	0.08	0.08	.09	.09
Aircraft	B-747	B-747	B-747	B-747	B-747	B-747
Flight time 2/	5:02	5:02	5.02	5:02	5:02	5:02

1/ Total regular one-way fare, including taxes, in dollars.

2/ Average scheduled flight time eastbound and westbound, in hours and minutes.

3/ Economy fares were discontinued effective January 1, 1980.

Source: United Airlines, printed schedules and records.

Table 421.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1979 TO 1981

Subject	Effective date of change in fare					
	Aug. 1, 1979	Sept. 1, 1979	Nov. 1, 1979	Dec. 1, 1979	Jan. 4, 1980	Mar. 1, 1980
HONOLULU - HILO						
Total one-way fare 1/	39.00	41.00	42.00	43.00	45.00	49.00
Fare	36.11	37.96	38.89	39.81	41.67	45.37
Tax	2.89	3.04	3.11	3.19	3.33	3.63
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:40	0:40	0:40	0:40	0:40	0:40
HONOLULU - MAUI						
Total one-way fare 1/	30.00	31.00	32.00	33.00	34.00	38.00
Fare	27.78	28.70	29.63	30.56	31.48	35.19
Tax	2.22	2.30	2.37	2.44	2.52	2.81
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:27	0:27	0:27	0:27	0:27	0:27
HONOLULU - KAUAI						
Total one-way fare 1/	30.00	31.00	32.00	33.00	34.00	38.00
Fare	27.78	28.70	29.63	30.56	31.48	35.19
Tax	2.22	2.30	2.37	2.44	2.52	2.81
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:26	0:26	0:26	0:26	0:26	0:26

Continued on next page.

Table 421.-- REGULAR ONE-WAY FARES AND SCHEDULEDFLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIIAN AIRLINES: 1979 TO 1981 -- Con.

Subject	Effective date of change in fare					
	May 2, 1980	June 1, 1980	Sept. 1, 1980	Jan. 1, 1981	Mar. 1, 1981	May 1, 1981
HONOLULU - HILO						
Total one-way fare 1/	50.00	53.00	56.00	59.00	61.00	63.00
Fare	46.30	49.07	51.85	56.19	58.10	60.00
Tax	3.70	3.93	4.15	2.81	2.90	3.00
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:40	0:40	0:40	0:40	0:40	0:40
HONOLULU - MAUI						
Total one-way fare 1/	39.00	41.00	44.00	47.00	49.00	51.00
Fare	36.11	37.96	40.74	44.76	46.67	48.57
Tax	2.89	3.04	3.26	2.24	2.33	2.43
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:27	0:27	0:27	0:27	0:27	0:27
HONOLULU - KAUAI						
Total one-way fare 1/	39.00	41.00	44.00	47.00	49.00	51.00
Fare	36.11	37.96	40.74	44.76	46.67	48.57
Tax	2.89	3.04	3.26	2.24	2.33	2.43
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:26	0:26	0:26	0:26	0:26	0:26

1/ Total regular one-way fare, including taxes and other charges, in dollars.

2/ Average scheduled flight time eastbound and westbound, in hours and minutes

Source: Hawaiian Airlines, printed schedules and records.

Table 422.-- STATE COMMERCIAL HARBORS: 1981

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area 1/ (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,613	64	341
Kawaihae	40	35	1,500	1,450	1,015	30	73
Maui:							
Kahului	35	35	1,450	2,000	2,794	122	638
Molokai:							
Kaunakakai	23	23	1,500	600	687	6	288
Oahu:							
Honolulu:							
Main	45	40	3,300	1,520	19,255	2,132	6,554
Kapalama		40	3,400	1,000			
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,140	69	73
Port Allen	35	35	1,500	1,200	1,092	24	33

1/ Revised from 1978 edition, table 316.

Source: Hawaii State Department of Transportation, Harbors Division, data supplied April 24, 1981.

Table 423.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1970 TO 1980

Year	Documented vessels 1/		Numbered vessels 2/	
	Date	Number	Date	Number
1970	June 30	553	Dec. 31	8,042
1971	June 30	597	Dec. 31	8,803
1972	June 30	621	Dec. 31	10,250
1973	June 30	692	Dec. 31	12,049
1974	Aug. 22	707	Dec. 31	11,843
1975	Sept. 1	797	Dec. 31	12,956
1976	Dec.	802	Dec. 31	13,130
1977	Dec. 7	924	Dec. 31	13,165
1978	Dec. 31	987	Dec. 31	13,695
1979	Dec. 31	996	Dec. 31	13,678
1980	Dec. 31	1,143	Dec. 31	13,459

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Transportation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered.

Source: U.S. Coast Guard, records; Hawaii State Department of Transportation, Report of Undocumented Vessel Registration (annual).

Table 424.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1980

Subject	Number
Certificates outstanding	13,459
Length: 1/	
Under 16 feet	5,347
16 to less than 26 feet	6,779
26 to less than 40 feet	1,092
40 to 65 feet	190
Over 65 feet	7
Hull materials: 1/	
Wood	2,544
Steel	37
Aluminum	429
Plastic	9,961
Other	444
Propulsion: 1/	
Inboard	897
Outboard	7,508
Inboard/outboard	2,010
Sail/inboard	561
Sail/outboard	614
Sail only	1,572
Other	253
Type of storage: 1/	
On water	2,764
On land	10,651
Type of vessel: 1/	
Cabin motorboat	1,865
Open motorboat	5,086
Runabout	3,100
Sail/inboard	555
Sail/outboard	670
Sail only	1,543
Motor vessel over 65 feet	7
Other	589
Uses:	
Pleasure	11,785
Commercial fishing	1,038
Charter fishing	17
Commercial passenger	67
Other commercial	33
Livery	124
Dealers or manufacturers	44
Youth group	42
Government	251
Other	58
Island kept: 1/	
Hawaii	1,796
Kauai	1,016
Lanai	49
Maui	893
Molokai	213
Oahu	9,448

1/ Data exclude 44 dealer or manufacturer registrations.

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

Table 425.-- BOATING ACCIDENTS: 1975 TO 1980

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage ($1,000)
	Total	Fatal	Killed	Injured non-fatally		
1975	62	4	4	13	74	228.2
1976	51	2	2	5	57	221.5
1977	57	1	1	6	63	284.0
1978	74	7	12	5	87	603.2
1979	59	3	7	9	66	429.2
1980	71	1	1	8	86	917.6

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual).

Table 426.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1970 TO 1980

[Years ended June 30.]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1970 1/	1,933	16,053,275	3,321	2,167,733
1971 1/	1,879	15,629,860	3,356	2,339,132
1972	1,847	15,267,302	3,096	1,875,681
1973	1,801	14,373,090	3,602	2,185,872
1974	1,587	13,465,620	3,666	2,879,354
1975	1,602	13,025,705	3,440	2,411,933
1976	1,386	11,700,000	2,733	2,064,320
1977	1,589	12,568,896	2,700	2,249,446
1978	1,651	12,676,469	1,981	1,947,893
1979	1,757	12,101,936	2,875	2,838,609
1980	1,963	10,483,989	2,338	2,572,778

1/ Tonnage estimated.
Source: Hawaii State Department of Transportation, Harbors Division, unpublished data.

Table 427.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1978

[Excludes domestic fishing craft.]

Harbor	Total inbound vessels	By type of vessel					By draft	
		Self propelled vessels			Non-self propelled vessels			
		Passenger and dry cargo	Tanker	Towboat or tugboat	Dry cargo	Tanker	18 feet and less	19 feet and more
All spec. harbors ..	10,344	3,692	217	3,791	2,420	224	(NA)	(NA)
Hilo	672	144	14	265	224	25	570	102
Kawaihae	269	16	1	144	104	4	252	17
Kahului	975	153	14	392	382	34	790	185
Kaunakakai	647	20	-	348	276	3	(NA)	(NA)
Kalaupapa	7	1	-	3	3	-	7	-
Honolulu	6,017	2,684	82	1,880	1,271	100	5,215	802
Barbers Point	1,230	579	102	511	2	36	1,135	95
Nawiliwili	376	82	3	157	113	21	348	28
Port Allen	151	13	1	91	45	1	(NA)	(NA)

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1978, Part 4, pp. 107-108.

Table 428.-- TRANSPACIFIC AND INTERISLAND SURFACE PASSENGER MOVEMENTS: 1970 TO 1981

[Data limited to revenue passengers.]

Year	Transpacific passengers 1/ (years ended June 30)			Inter-island passenger arrivals 2/ (calendar years)
	Arrivals	Departures	Through	
1970 ...	13,267	13,699	(NA)	-
1971 ...	8,943	8,024	(NA)	-
1972 ...	10,725	8,820	(NA)	-
1973 ...	9,742	7,585	(NA)	-
1974 ...	5,756	5,975	(NA)	-
1975 ...	5,795	5,284	(NA)	71,807
1976 ...	5,829	5,987	(NA)	196,366
1977 ...	5,940	5,476	(NA)	270,128
1978 ...	4,763	4,151	(NA)	11,000
1979 ...	551	318	11,536	-
1980 ...	399	353	11,421	15,763
1981 ...	616	604	10,214	(NA)

NA Not available.

1/ Data limited to the Port of Honolulu. The decline in passenger volumes after 1977 reflects the termination of service by the Mariposa and Monterey on April 2, 1978.

2/ Scheduled interisland passenger service by hydrofoil was begun June 15, 1975 and terminated January 15, 1978. Interisland cruise ship service was begun June 21, 1980. The 1978 figure is an estimate based on the daily average for 1977.

Source: Transpacific passengers, 1979 and later years, from Davies Marine Agencies, Inc., records; interisland passengers, 1980, from American Hawaii Cruises, records; other data from Hawaii State Department of Transportation, Harbors Division, records.

Table 429.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1970 TO 1978

Subject and year	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
FREIGHT TRAFFIC 1/ (SHORT TONS)						
1970	1,141,163	329,425	1,083,355	8,078,111	2,561,558	500,094
1971	1,064,384	355,546	1,067,941	7,390,015	2,677,542	460,259
1972	1,108,067	303,116	1,297,829	7,960,447	3,420,445	582,887
1973	1,041,647	385,850	1,042,818	8,188,466	3,944,857	495,448
1974	928,619	291,036	982,110	7,556,891	4,360,221	380,495
1975	1,053,879	279,687	1,109,485	7,935,183	5,185,659	532,978
1976	995,544	263,562	1,276,424	7,189,538	6,593,497	460,900
1977	1,013,430	318,197	1,301,095	6,881,556	6,630,994	557,798
1978	1,272,734	502,451	1,922,112	7,750,537	6,306,580	765,877
PASSENGERS 2/						
1970	4,457	-	-	690,906	-	4,228
1971	2,148	-	-	518,603	-	1,683
1972	658	-	-	796,694	-	658
1973	-	-	-	989,100	-	-
1974	9,600	-	9,600	987,475	-	-
1975	13,613	-	11,296	1,073,125	-	13,934
1976	1,313	-	1,307	1,390,524	-	40,674
1977	8,381	-	8,390	303,291	3,504	70,063
1978	3,207	-	3,879	183,721	4,441	6,384

1/ Excludes cargo carried by Army and Navy vessels and cargo in transit.

2/ Total arrivals and departures for transpacific, interisland, and local travel. For details (Honolulu only), see the following table.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1978, Part 4, pp. 30-35.

Table 430.-- PASSENGER ARRIVALS AND DEPARTURES, BY ORIGIN AND DESTINATION, FOR HONOLULU HARBOR AND KEWALO BASIN: 1978

Harbor and trip category	Total	Arrivals	Departures
HONOLULU HARBOR 1/			
Total	183,721	89,305	94,416
To or from other countries	12,617	3,729	8,888
To or from other States	4,026	2,130	1,896
To or from U.S. territories	-	-	-
Interisland 2/	167,078	83,446	83,632
Local 3/	-	-	-
KEWALO BASIN			
Total	1,580,806	790,403	790,403
To or from other countries	-	-	-
To or from other States	-	-	-
To or from U.S. territories	-	-	-
Interisland 2/	1,580,806	790,403	790,403
Local 3/	-	-	-

1/ According to the Waterborne Commerce Statistics Center, the source for these data, the 1976 data for Honolulu Harbor (reported in The State of Hawaii Data Book 1978, table 322) "incorrectly credited Honolulu Harbor, Oahu, with passenger traffic which should have been credited to Kewalo Basin, Oahu. In addition, these improper credits to Honolulu Harbor were doubled because the origin and destination data were incorrectly reported by the operators on the VORs (Vessel Operation Reports). The incorrect data contained in the CY 1976 VORs was corrected in CY 1977 thus reflecting a significant reduction in passenger totals for Honolulu Harbor, Oahu, in CY 1977 and a significant increase in passenger totals for Kewalo Basin, Oahu, in CY 1977. The passenger totals for CY 1976, 1977 and 1978 are further distorted by the fact that there are at least two water carriers that did not report passenger traffic for those years." The 1977 data for Honolulu Harbor were published in the 1979 edition, table 309, and the 1980 edition, table 377. These errors also affect the trend data for Honolulu Harbor presented in the preceding table and its earlier counterparts (for example, table 376 in the 1980 edition).

2/ Commercial interisland hydrofoil service was discontinued January 15, 1978. It appears that local passenger traffic was misclassified as interisland during 1978.

3/ Chiefly Pearl Harbor tours. According to the U.S. Navy, civilian boats carried 537,671 passengers to or around the U.S.S. Arizona Memorial during 1978. All local passenger traffic appears to have been misclassified as interisland for this table.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce Statistics Center, letter dated August 26, 1980.

Table 431.-- OVERSEAS AND INTERISLAND SHIPPING: 1968 TO 1978

[In revenue tons of 2,000 lbs.]

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1968 ...	9,185,880	6,498,986	2,686,894	3,689,409	1,844,704	1,844,705
1969 ...	9,440,891	7,185,809	2,255,082	3,941,074	1,969,987	1,971,087
1970 ...	9,610,764	7,464,651	2,146,113	4,788,130	2,394,065	2,394,065
1971 ...	9,442,634	7,097,445	2,345,189	4,190,708	2,091,490	2,099,218
1972 ...	10,024,122	7,631,789	2,392,333	5,851,128	2,800,702	3,050,426
1973 ...	11,287,536	8,203,106	3,084,430	4,679,121	2,300,634	2,378,487
1974 ...	11,156,346	8,581,226	2,575,120	3,780,896	1,904,501	1,876,395
1975 ...	11,758,995	8,644,344	3,114,651	5,067,630	2,495,317	2,572,313
1976 ...	12,222,022	9,240,594	2,981,428	5,015,918	2,475,123	2,540,795
1977 1/.	12,644,459	9,544,639	3,099,820	4,542,491	2,274,346	2,268,145
1978 ...	12,279,219	9,089,931	3,189,288	6,547,820	3,274.080	2,273,740

1/ Revised from 1980 edition, table 378.

Source: Hawaii State Department of Transportation, Harbors Division, estimates based on data in U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual).

Table 432.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1978

[In short tons.]

Harbor and commodity 1/	Total	Foreign		Interstate 2/
		Imports	Exports	Receipts
Hilo	1,272,734	33,870	22,316	181,714
Sugar	220,679	-	-	7
Motor vehicles	252,797	-	-	4,373
Kawaihae	502,451	460	87,424	2,584
Kahului	1,922,112	25,527	43,150	137,895
Sugar	233,011	-	6	13
Residual fuel oil	210,600	-	-	77,633
Fabricated metal products	278,660	-	-	877
Motor vehicles	377,132	407	-	1,987
Honolulu	7,750,537	1,153,711	98,051	2,363,551
Prepared fruit juice	448,583	4,017	1,684	8,437
Molasses	256,738	-	-	-
Gasoline	1,131,780	852,100	16,255	138,354
Residual fuel oil	370,891	9,868	-	171,219
Fabricated metal products	621,468	11,537	985	31,301
Motor vehicles	1,056,611	29,419	643	81,566
Barbers Point	6,306,580	3,870,643	133,076	1,284,031
Crude petroleum	2,311,754	1,661,527	-	650,227
Gasoline	311,750	207,914	-	-
Distillate fuel oil	598,563	479,004	2,700	-
Residual fuel oil	2,259,115	855,013	127,993	632,259
Lubricating oils, greases	558,820	558,820	-	-
Nawiliwili	765,877	11,153	-	6,960
Sugar 3/	212,175	-	-	-
Other harbors 4/	269,995	(NA)	(NA)	(NA)

Continued on next page.

Table 432.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1978 -- Con.

Harbor and commodity 1/	Interstate 2/-- con.	Interisland 2/		Local
	Shipments	Receipts	Shipments	
Hilo	287,308	622,637	124,889	-
Sugar	220,637	35	-	-
Motor vehicles	2,283	222,390	23,751	-
Kawaihae	167,724	153,978	90,281	-
Kahului	277,576	1,069,976	367,968	20
Sugar	232,609	264	119	-
Residual fuel oil	-	132,967	-	-
Fabricated metal products	59	214,125	63,599	-
Motor vehicles	287	295,993	78,458	-
Honolulu	896,900	886,986	2,341,299	10,039
Prepared fruit juice	330,001	97,870	6,574	-
Molasses	152,558	104,180	-	-
Gasoline	-	6,954	110,193	7,924
Residual fuel oil	-	30,682	159,122	-
Fabricated metal products	6,926	153,245	417,474	-
Motor vehicles	16,028	152,851	776,104	-
Barbers Point	944,204	4,370	70,256	-
Crude petroleum	-	-	-	-
Gasoline	96,561	1,290	5,985	-
Distillate fuel oil	109,376	-	7,483	-
Residual fuel oil	613,168	-	30,682	-
Lubricating oils, greases	-	-	-	-
Nawiliwili	226,400	383,971	137,393	-
Sugar	204,837	23	7,315	-
Other harbors 4/	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Commodities under 200,000 tons are not shown separately.

2/ Interstate and interisland (or intrastate) data are combined in the coastwise totals shown in the published reports.

3/ Corrected from 1980 edition, table 379.

4/ Kaunakakai (179,223), Kalaupapa (1,438), and Port Allen (89,334).

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1978, pp. 30-37, and unpublished printouts.

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, and specific crops, livestock, dairy products, and poultry. Related information appears in Section 6 (on land use), 11 and 15 (agricultural employment and earnings), and 22 (food processing).

There were 4,300 farms in Hawaii as of 1980, with a total area of 2.0 million acres. Both figures have declined during the past decade. The value of crop sales in 1980 was $552 million, or 221 percent higher than the total for 1970. Livestock sales amounted to $81 million, or 95 percent more than the 1970 level. Combined crop and livestock sales ranged from $94 million in Kauai County to $215 million on the Big Island. Net farm income in 1979 was $157 million. Major crops in 1980 were sugar ($385 million in sales, up 248 percent over the decade), pineapple ($77 million, or 94 percent over the 1970 total), flowers and nursery products ($27 million, or 549 percent more than in 1970), and macadamia nuts ($24 million, up 743 percent). Diversified agriculture, defined as all crops other than sugar and pineapple, rose from $22 million in 1970 to $91 million in 1980, or approximately 313 percent. About 640 farms sold $27 million of flowers and nursery products in 1980, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1980 included cattle ($28 million in sales), milk ($27 million), and eggs ($14 million). Coffee sales have dropped sharply during the past decade. In 1980, Hawaii produced 40 percent of the fresh market vegetables consumed locally, 23 percent of the fresh market fruits, 30 percent of the beef and veal, 24 percent of the chickens, none of the rice, and 89 percent of the eggs.

Aquaculture has been growing in importance in recent years. Freshwater prawn production amounted to 300,000 pounds in 1980, with a value of more than $1 million. Only six years earlier the corresponding figures had been only 11,000 lb. and $38,500.

Statistics on Hawaiian agriculture exclude pakalōlō (marijuana) and other illicit plants. Authorities confiscated $19 million worth of marijuana in 1980, but the proportion escaping detection is unknown.

Important sources for data on agriculture include the United States Census of Agriculture, generally conducted at five-year intervals, the annual report on Statistics of Hawaiian Agriculture issued by the Hawaii Agricultural Reporting Service, and data compiled by the Hawaii Agricultural Experiment Station, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Agricultural data for earlier years are summarized in Historical Statistics of Hawaii, Section 13. National statistics appear in Section 24 of the Statistical Abstract of the United States: 1980.

Table 433.-- AGRICULTURAL SUMMARY: 1964 TO 1978

Subject	1964	1969	1974	1978
Number of farms by size				
Total	4,864	3,896	3,020	4,310
Less than 10 acres	2,603	2,024	1,633	2,527
10 to 49 acres	1,594	1,281	872	1,211
50 to 179 acres	359	336	271	296
180 to 499 acres	168	140	127	146
500 to 999 acres	38	28	23	24
1,000 to 1,999 acres	22	17	24	32
2,000 or more acres	80	70	70	74
Farm acreage				
Total acreage (1,000)	2,354	2,058	2,119	1,988
Per farm (acres)	484	528	702	461
Total cropland (1,000)	370.9	379.8	351.6	333.3
Harvested cropland (1,000)	167.5	178.7	151.4	158.6
Irrigated land (1,000)	143.9	145.6	141.7	159.3
Other characteristics				
Average age of farm operators (years)	51.0	53.1	55.4	52.7
Tenant operators (percent of total)	41.1	38.1	36.6	34.5
Regular hired workers 1/	12,375	13,200	11,497	11,380
Average value of land and buildings:				
Per farm ($1,000)	98.9	156.8	340.6	413.9
Per acre (dollars)	205	297	485	897
Market value of agricultural products sold:				
Total ($1,000,000)	187.5	285.6	609.8	419.3
Per farm ($1,000)	38.5	73.3	201.9	97.3
Percent of farms over $2,500	46.5	55.6	67.4	67.6

1/ Working 150 days or more on all farms.

2/ 1978 data exclude sales of forest products.

Source: U.S. Bureau of the Census, 1974 Census of Agriculture, Vol. I, Part 11 (1977), pp. 1, 2, and 16, and 1978 Census of Agriculture, Vol. I, Part 11 (1981), pp. 1, 2, 5, and 6.

Table 434.-- AGRICULTURAL SUMMARY, BY COUNTIES: 1978

Subject	State total	Hawaii	Honolulu	Kauai	Maui
Number of farms by size					
Total	4,310	2,266	1,053	369	622
Less than 10 acres	2,527	1,213	822	188	304
10 to 49 acres	1,211	745	161	114	191
50 to 179 acres	296	155	36	41	64
180 to 499 acres	146	85	16	11	34
500 to 999 acres	24	16	2	-	6
1,000 to 1,999 acres	32	13	9	5	5
2,000 or more acres	74	39	7	10	18
Farm acreage					
Total acreage (1,000)	1,988	1,154	126	286	422
Per farm (acres)	461	509	119	776	679
Total crop land (1,000)	333.3	129.5	(D)	(D)	96.6
Harvested cropland (1,000) ...	158.6	58.7	30.5	24.9	44.5
Irrigated land (1,000)	159.3	21.9	38.4	36.8	62.2
Other characteristics					
Average age of farm operators (years)	52.7	52.8	53.1	53.1	51.3
Tenant operators (percent of total)	34.5	33.9	40.3	38.5	24.4
Regular hired workers 1/	11,380	2,961	2,758	2,095	3,566
Average value of land and buildings:					
Per farm ($1,000)	413.9	405.5	300.6	498.7	586.4
Per acre (dollars)	897	796	2,519	643	864
Market value of agricultural products sold:					
Total ($1,000)	419,251	148,399	118,608	48,679	103,564
Per farm ($1,000)	97.3	65.5	112.6	131.9	166.5
Percent of farms over $2,500	67.6	68.6	71.5	59.9	61.7

D Data withheld to avoid disclosing information for individual farms.

1/ Working 150 days or more on all farms.

Source: U.S. Bureau of the Census, 1978 Census of Agriculture, Vol. I, Part 11 (1981), pp. 107, 125, 126, 130, 131, 135, 136, 140, 141.

Table 435.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES: 1970 TO 1980

Year	Number of farms 1/	Farm acreage 2/ (1,000)	Value of crop and livestock sales ($1,000)				
			Crops and live-stock	Sugar (un-processed cane)	Pine-apples (fresh equiv-alent)	Other crops	Live-stock
1970 ..	4,500	2,300	213,667	110,600	39,500	21,919	41,648
1971 ..	4,400	2,300	221,692	115,800	40,300	22,539	43,053
1972 ..	4,300	2,300	232,497	117,300	43,900	25,055	46,242
1973 ..	4,100	2,300	266,161	141,900	39,600	29,392	55,269
1974 ..	3,800	2,200	575,432	442,300	40,259	34,964	57,909
1975 ..	3,900	2,150	377,575	237,000	41,616	40,688	58,271
1976 ..	4,000	2,100	327,820	164,700	52,983	47,815	62,322
1977 ..	4,100	2,050	325,182	144,200	62,249	53,715	65,018
1978 ..	4,300	1,980	380,655	182,700	63,090	62,308	72,557
1979 ..	4,300	1,980	441,252	217,600	69,409	75,779	78,464
1980 ..	4,300	1,970	633,570	385,100	76,596	90,625	81,249

1/ Data for 1974 and later years based on revised form definition.

2/ Includes land not in crop and pasture, such as farm house lots, roads, woodlots, etc.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual).

Table 436.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1970 TO 1980

Geographic area and year	Number of farms 1/	Farm acreage 2/ (1,000)	Value of crop and livestock sales ($1,000)				
			Crops and livestock	Sugar (unprocessed cane)	Pineapples (fresh equiv.)	Other crops	Livestock
State total:							
1970	4,500	2,300	213,667	110,600	39,500	21,919	41,648
1979	4,300	1,980	441,252	217,600	69,409	75,779	78,464
1980	4,300	1,970	633,570	385,100	76,596	90,625	81,249
Hawaii Co.:							
1970	2,500	1,340	65,559	41,000	-	11,265	13,294
1979	2,500	1,150	145,144	79,500	-	44,354	21,290
1980	2,500	1,150	215,486	137,500	-	55,540	22,446
Maui Co.:							
1970	650	526	59,499	26,600	25,700	3,139	4,060
1979	500	425	106,470	52,200	32,936	9,788	11,546
1980	500	420	159,293	100,800	36,404	12,016	10,073
Oahu:							
1970	930	152	61,000	20,300	12,500	5,820	22,380
1979	1,000	125	132,449	38,200	36,473	16,524	41,252
1980	1,000	125	164,905	63,200	40,192	18,504	43,009
Kauai Co.:							
1970	420	282	27,609	22,700	1,300	1,695	1,914
1979	300	280	57,189	47,700	-	5,113	4,376
1980	300	275	93,886	83,600	-	4,565	5,721

1/ Farm definition revised in 1979.

2/ Includes land not in crop and pasture such as farm house lots, roads, wood lots, etc.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 437.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1970 TO 1980

Subject	1970	1979	1980
Acreage in crop (1,000 acres):			
Sugarcane	239.0	218.8	217.7
Pineapples (land used for pineapple)	60.9	44.0	43.0
Vegetables and melons (harvested acreage)	3.2	4.3	3.9
Fruits, excluding pineapples	3.3	5.3	5.2
Coffee	3.9	2.1	1.9
Macadamia nuts	8.7	11.4	13.4
Miscellaneous crops	3.6	4.9	4.9
Number of crop farms:			
Sugar	717	400	330
Pineapples	47	15	18
Vegetables and melons	488	535	585
Fruits (excluding pineapples)	409	683	692
Coffee	750	700	650
Macadamia nuts	287	466	466
Taro	132	121	122
Flowers and nursery products	460	580	640
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	10,457	9,632	9,214
Pineapples, fresh equivalent (1,000 tons)	954	681	657
Vegetables and melons (1,000 lb.)	54,798	70,240	70,680
Fruits, excluding pineapples (1,000 lb.)	36,241	56,600	67,800
Coffee, parchment (1,000 lb.)	4,300	2,190	1,450
Macadamia nuts, in shell (1,000 lb.)	13,216	26,660	33,390
Taro (1,000 lb.)	8,555	6,640	6,400
Value of crop sales ($1,000):			
Sugar (unprocessed cane)	110,600	217,600	385,100
Pineapples (fresh equivalent)	39,500	69,409	76,596
Vegetables and melons	6,889	18,388	18,501
Fruits (excluding pineapples)	3,488	11,956	12,983
Coffee (parchment)	1,449	3,132	2,175
Macadamia nuts (in shell)	2,868	16,769	24,174
Taro	736	1,089	1,280
Field crops (not estimated separately)	2,084	3,557	3,971
Flowers and nursery products	4,225	20,778	27,441
Forest products	180	110	100

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 438.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1980

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	91.2	47.4	33.1	46.0
Pineapples (land used for pineapple)	-	31.5	11.5	1/
Vegetables and melons (harvested acreage)	1.5	1.2	1.1	0.1
Fruits, excluding pineapples	3.6	0.1	0.8	0.7
Coffee	1.9	-	-	-
Macadamia nuts	12.2	(D)	(D)	(D)
Miscellaneous crops	1.0	1.9	1.4	0.6
Number of crop farms:				
Sugar	319	3	3	5
Pineapples	-	13	2	3
Vegetables and melons	213	75	246	51
Fruits (excluding pineapples)	410	38	166	78
Coffee	650	-	-	-
Macadamia nuts	460	2	1	3
Taro	41	29	2	50
Flowers and nursery products	300	95	220	25
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	3,718	2,278	1,345	1,873
Pineapples, fresh equivalent (1,000 tons)	-	479	178	(1/)
Vegetables and melons (1,000 lb.)	31,290	23,980	13,950	1,460
Fruits, excluding pineapples (1,000 lb.)	51,570	2,200	5,950	8,080
Coffee, parchment (1,000 lb.)	1,450	-	-	-
Macadamia nuts, in shell (1,000 lb.)	33,270	(D)	(D)	(D)
Taro (1,000 lb.)	700	(D)	(D)	4,550
Value of crop sales ($1,000):				
Sugar (unprocessed cane)	137,500	100,800	63,200	83,600
Pineapples (fresh equivalent)	-	36,404	40,192	-
Vegetables and melons	7,274	5,276	5,414	537
Fruits (excluding pineapples)	9,619	384	1,444	1,536
Coffee (parchment)	2,175	-	-	-
Macadamia nuts (in shell)	24,071	(D)	(D)	(D)
Taro	162	(D)	(D)	865
Field crops (not estimated separately)	60	1,774	1,183	954
Flowers and nursery products	12,089	4,342	10,395	615
Forest products	90	(NA)	(NA)	(NA)

D Withheld to avoid disclosure of individual operations.
NA Not available.
1/ Less than 500 acres.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1980.

Table 439.-- VEGETABLES, FRUITS, COFFEE, NUTS, AND TARO: 1980

Crop 1/	Acreage harvested 2/	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales ($1,000)
Vegetables:					
Beans, Snap	130	8.5	1,100	73.8	812
Cabbage, Chinese	350	19.7	6,900	14.5	1,001
Cabbage, Head	460	29.5	13,600	12.8	1,741
Cucumbers	210	21.9	4,600	25.5	1,173
Daikon	200	16.9	3,370	15.9	536
Eggplant	60	25.7	1,540	38.1	587
Ginger root	40	40.8	1,610	67.7	1,090
Lettuce (head, semi-head)	660	15.0	9,900	19.7	1,950
Onions, Dry	80	14.4	1,150	60.8	699
Onions, Green	90	10.0	900	72.5	652
Tomatoes	270	28.5	7,700	31.0	2,387
Watercress	32	...	1,420	48.3	686
Fruits:					
Bananas	580	7.9	4,600	23.9	1,099
Guavas	615	...	7,520	11.5	865
Papayas	1,950	24.9	48,916	20.4	9,979
Macadamia nuts (1980-1981)	10,400	3.2	33,390	72.4	24,174
Coffee (1980-1981)	1,700	0.9	1,450	150.0	2,175
Taro	320	...	6,400	20.0	1,280

1/ Data shown for crops with sales in excess of $500,000.

2/ Acreage bearing for macadamia nuts; acreage in crop for watercress and taro.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture, 1980 pp. 36-66.

Table 440.-- LIVESTOCK INVENTORY: 1970, 1979, AND 1980

[In thousands.]

Type of livestock	1970	1979	1980
All cattle and calves 1/	249	213	220
Milk cows 1/	13	13	13
Hogs and pigs 2/	58	53	57
Chickens (excluding broilers) 2/ ..	1,290	1,306	1,314
Bee colonies	5	7	7

1/ As of following January 1.
2/ As of December 1.
Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 441.-- LIVESTOCK INVENTORY, BY GEOGRAPHIC AREAS: 1980-1981

[In thousands.]

Type of livestock	Hawaii County	Maui County	Oahu	Kauai County
All cattle and calves 1/	127.2	45.9	28.5	18.4
Milk cows 1/	1.6	1.2	9.9	0.5
Hogs and pigs 2/	6.5	10.7	35.4	4.5
Chickens (excluding broilers) 2/ .	(D)	(D)	1,118	(D)

D Withheld to avoid disclosure of individual operations.
1/ As of January 1, 1981.
2/ As of December 1, 1980.
Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1980, pp. 72, 81, and 86.

Table 442.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1970 TO 1980

Subject	1970	1979	1980
Number of livestock operations, Dec. 31:			
Cattle 1/	1,100	800	800
Hogs	570	650	650
Milk	110	70	70
Eggs	160	60	60
Broilers	31	10	10
Honey	24	25	27
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) 2/	32,210	29,325	28,809
Pork (dressed weight; 1,000 lb.)	7,903	7,785	8,012
Milk (million lb.)	135.3	147.3	149.4
Eggs (million)	196	229	222
Broilers and chickens (1,000 lb. 3/)	5,688	7,136	7,890
Honey (1,000 lb.)	215	910	861
Value of livestock sales ($1,000):			
Cattle 4/	13,901	28,356	28,074
Hogs 4/	4,099	7,027	7,457
Milk	12,960	24,894	27,071
Eggs	8,395	14,007	14,005
Broilers and chickens	2,202	3,655	4,181
Other	91	525	461

1/ Includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves, shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture (annual).

Table 443.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1980

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle 1/	360	210	80	150
Hogs	80	110	350	110
Milk	24	17	24	5
Eggs	23	5	26	6
Broilers	-	-	8	2
Honey	3	5	5	14
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) 2/	18,201	5,838	1,605	3,165
Pork (dressed weight; 1,000 lb.)	929	1,852	4,583	648
Milk (million lb.)	(D)	(D)	119.4	(D)
Eggs (million)	(D)	(D)	192.1	(D)
Broilers and chickens (1,000 lb. 3/)	(D)	(D)	7,550	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales ($1,000):				
Cattle 4/	17,973	5,580	1,403	3,118
Hogs 4/	892	1,865	4,026	674
Milk	(D)	(D)	21,719	(D)
Eggs	(D)	(D)	11,862	(D)
Broilers and chickens	(D)	(D)	3,988	(D)
Other	312	104	11	34

D Withheld to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves, shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture 1980.

Table 444.-- FLOWERS AND NURSERY PRODUCTS, 1970 TO 1980, AND BY ISLAND, 1980

Island and year	Number of farms	Area						Whole-sale value ($1,000)
		Total (acres)	Green-house (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)		
State total:								
1970	459	807	116	5,177	144	542		4,225
1979	580	1,312	1,625	16,950	116	770		20,778
1980	640	1,477	1,753	19,567	130	858		27,441
Islands, 1980:								
Hawaii ...	300	807	870	15,352	119	316		12,089
Kauai	25	22	32	69	4	16		615
Maui	95	274	200	652	-	254		4,342
Oahu	220	374	651	3,494	7	272		10,395

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 445.-- FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1980

Kind of flower	Number of farms	Number of flowers sold		Wholesale value ($1,000)
		Unit	Number	
Cut flowers :				
Anthuriums	228	1,000 dozens	2,532	6,878
Birds of paradise	27	1,000 dozens	27	70
Carnations	15	1,000 dozens	54	102
Chrysanthemums, pompon	15	1,000 bunches	364	343
Chrysanthemums, other	4	1,000 dozens	7	27
Gingers	35	(NA)	(NA)	253
Proteas, pincushion	12	1,000 stems	703	181
Proteas, other	13	1,000 stems	211	113
Roses	6	1,000 dozens	339	798
Others	49	(NA)	(NA)	499
Cut orchids:				
Cattleyas	30	1,000 flowers	88	70
Cymbidiums	17	1,000 flowers	448	150
Dendrobiums, sprays	41	1,000 dozens	70	336
Others	19	(NA)	(NA)	16
Lei flowers:				
Carnations	25	Million flowers	36.6	1,169
Vanda Miss Joaquim	35	Million flowers	38.8	573
Plumerias	21	Million flowers	23.7	440
Tuberoses	5	Million flowers	32.0	684
Dendrobiums	21	Million flowers	6.6	175
Pikake	16	1,000 strands	147	169
Cut foliage:				
Ti leaves	62	Million leaves	14.5	332
Other greens	34	(NA)	(NA)	242
Potted plants:				
Anthuriums	24	1,000 pots	129	230
Chrysanthemums	11	1,000 pots	192	607
Orchids	142	1,000 pots	514	2,227
Poinsettias	30	1,000 pots	134	410
Potted foliage	95	(NA)	(NA)	4,943
Other potted plants	70	(NA)	(NA)	1,340
Ornamentals and trees	65	(NA)	(NA)	1,181
Unfinished flower and foliage stock	36	(NA)	(NA)	1,536
Other nursery products	71	(NA)	(NA)	1,347

NA Not available.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1980.

Table 446.-- MARKET SUPPLY OF SPECIFIED FOODS: 1970 TO 1980

Commodity and year	Total market supply 1/			Per capita market supply 2/	Percent from Hawaii
	Total	Inshipment	Hawaii		
Fresh market fruits					
1970	52,770	31,820	20,950	65.7	39.7
1979	76,004	58,295	17,709	73.1	23.3
1980	80,586	61,926	18,660	76.0	23.2
Fresh market melons:					
1970	10,227	7,397	2,830	12.7	27.7
1979	14,944	13,814	1,130	14.4	7.6
1980	13,244	11,894	1,350	12.5	10.2
Fresh market vegetables:					
1970	113,258	66,036	47,222	141.1	41.7
1979	174,235	105,155	69,080	167.6	39.6
1980	174,129	105,039	69,090	164.3	39.7
Beef and veal: 3/					
1970	67,522	35,312	4/ 32,210	84.1	47.7
1979	90,525	61,200	4/ 29,325	87.1	32.4
1980	94,359	65,550	4/ 28,809	89.0	30.5
Pork: 3/					
1970	23,106	15,203	7,903	28.8	34.2
1979	32,642	24,857	7,785	31.4	23.8
1980	34,830	26,818	8,012	32.9	23.0
Chickens: 5/					
1970	22,902	17,214	5,688	28.5	24.8
1979	31,054	23,918	7,136	29.9	23.0
1980	33,345	25,455	7,890	31.5	23.7
Eggs:					
1970	17,124	824	16,300	21.3	95.2
1979	21,056	1,956	19,100	20.3	90.7
1980	20,871	2,371	18,500	19.7	88.6

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population.

3/ Carcass weight equivalent.

4/ Excludes slaughter cattle and calves shipped out-of-State.

5/ Ready-to-cook weight.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 447.-- GROSS AND NET INCOME FROM FARMING AND FARM PRODUCTION EXPENSE: 1977 TO 1979

[In millions of dollars.]

Subject	1977	1978	1979
Gross farm income, total	380.1	419.4	461.8
Cash receipts from farm marketings	325.5	380.5	418.9
Government payments	1/ 24.7	1/ 4.9	0.7
Non-money income	13.9	16.5	20.2
Other farm income	16.0	17.5	21.9
Farm production expenses, total	241.4	256.5	308.3
Current farm operating expenses	208.0	219.1	263.9
Hired labor	108.5	112.7	132.7
Other current expenses 2/	99.6	106.3	131.2
Other expenses 3/	33.4	37.5	44.4
Net change in farm inventories	-1.2	-5.7	-0.9
Net income after inventory adjustment	137.5	157.2	152.6

1/ Excludes amounts paid but allocated to the raw sugar processing and refining segment of the sugar industry ($24.0 million in 1977 and $4.0 million in 1978).

2/ Feed, livestock, seed, fertilizer and lime, repairs and operation of capital items, and miscellaneous current operating expenses.

3/ Depreciation and other consumption of farm labor, taxes on farm property, interest on farm mortgage debt, and net rent to nonoperator landlords.

Source: U.S. Department of Agriculture estimates cited in the Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1980, p. 12.

Table 448.-- FARM FINANCES: 1977 TO 1980

[Millions of dollars.]

Subject	1977	1978	1979	1980
Farm assets, Jan. 1	1,770	1,949	2,415	2,998
Change during year	179	466	583	...
Farm debt, Jan. 1	113	127	136	158
Change during year	14	9	22	...
Farm equity, Jan. 1	1,657	1,822	2,279	2,840
Change during year	165	457	561	...
Cash receipts, total	350.2	381.3	419.6	...
Farm marketings	325.5	380.5	418.9	...
Livestock and products	64.9	72.5	78.2	...
Crops	260.5	307.9	340.6	...
Government payments	24.7	0.8	0.7	...
Value of home consumption 1/ ...	1.1	2.0	1.6	...

1/ Value of farm products consumed directly in farm households where produced. Limited to livestock and products; not available for crops.

Source: U.S. Department of Agriculture, Economics and Statistics Service, *Economic Indicators of the Farm Sector: Income and Balance Sheet Statistics, 1979* (Statistical Bulletin No. 650, December 1980), pp. 22-25, 30-32, and 37.

Table 449.-- AGRICULTURAL PRODUCTIVITY RATING AND ESTIMATED ANNUAL INLAND SOIL LOSS FOR MAJOR ISLANDS

Subject	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Agricultural productivity rating (1,000 acres)						
Total	2,584.3	466.4	89.3	167.1	388.9	354.1
Very good	-	32.7	-	0.7	24.6	10.0
Good	46.2	20.1	-	-	32.3	30.3
Moderate	214.3	38.5	4.8	4.5	22.0	28.5
Poor	573.1	99.8	20.2	40.4	19.7	30.5
Very poor	1,738.2	268.7	63.8	120.3	228.2	249.3
Not rated 1/	12.5	6.7	0.4	1.2	62.1	5.5
Inland soil loss (1,000 tons per year)						
Total erosion	2,287	2,357	1,242	2,373	1,355	2,493
Sediment yield 2/	502	310	187	357	330	429

1/ Quarry, water, or urban.

2/ Total erosion minus amount deposited enroute to the point of measurement.

Source: Arthur Y. Ching and Tamotsu Sahara, Land Use and Productivity Rating, State of Hawaii, 1968, L.S.B. Circular No. 15 (University of Hawaii, Land Study Bureau, July 1969), pp. 20-21; State of Hawaii Water Resources Regional Study, Hawaii Water Resources Plan (January 1979), p. 94.

Table 450.-- FRESHWATER PRAWN FARMS, BY TYPE OF OPERATION AND ISLAND: DECEMBER 31, 1979 AND 1980

Operation and island	1979	1980
All prawn farms	19	24
Type of operation:		
Full-time	7	8
Part-time	12	16
Island:		
Hawaii	-	4
Molokai	1	1
Oahu	17	16
Kauai	1	3

Source follows next table.

Table 451.-- FRESHWATER PRAWN ACREAGE, PRODUCTION, AND VALUE: 1970 TO 1980

Year	Acres of prawn ponds 1/	Production (1,000 lb.)	Value ($1,000)	Wholesale price per pound (dollars)
1970 2/	1.5	...	...	...
1971 2/	1.5	...	...	...
1972	1.5	4.3	15.0	3.50
1973	1.5	4.4	15.3	3.50
1974	5	11.0	38.5	3.50
1975	26	40.3	140.9	3.50
1976	26	43.3	151.6	3.50
1977	33	54.9	206.0	3.75
1978	107	110.2	420.0	3.82
1979 3/.......	275	205.0	787.3	3.84
1980	310	300.0	1,125.0	3.75

1/ As of December 31.
2/ Data not available for production and value.
3/ Revised July 27, 1981.

Source: Hawaii State Department of Planning and Economic Development, Aquaculture Development Program, The Hawaiian Prawn Industry, A Profile (December 1979), and Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

Section 20

FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest products, commercial fishing, and mining and mineral products. Other statistics on forest products appear in Section 19.

The most recent available statistics show 1.2 million acres of forest and water reserve and 948,000 acres of commercial forest in the State, most of it on the Big Island. More than 45,000 acres had been planted in eucalyptus and other species of trees by mid-1980. Forest products harvested in 1977 had a value of $3.5 million, including $2.3 million from logs for fiber. More than 390 forest and brushland fires burned 2,439 acres in fiscal 1980.

The commercial fish catch in fiscal year 1980 amounted to 9.6 million pounds and had a value of $9.7 million. *Aku* (Skipjack) accounted for about one-third of the total value. Other important species are *ahi*, *ahipalala*, *akule*, *opelu* and *opakapaka*. Commercial fishermen numbered 2,497; they operated 1,377 fishing vessels, serving 35 fishery wholesaling and processing establishments.

The value of mineral production reached $61 million in 1980, most of it in cement ($28 million) and stone ($30 million). The 1980 total, only slightly below the all-time high reached in 1979, was double the level of the early 1970s.

Important sources of data on these subjects are the United States Census of Agriculture, United States Census of Mineral Industries, and reports and records of the U.S. Bureau of Mines, National Marine Fisheries Service, and Hawaii State Department of Land and Natural Resources, Fish and Game Division and Forestry and Wildlife Division. *Historical Statistics of Hawaii*, Section 14, summarizes the data for earlier periods. Comparable Mainland statistics are reported in the *Statistical Abstract of the United States: 1980*, Sections 25, 26 and 27.

Table 452.-- FOREST ACREAGE AND FIRES, BY ISLANDS: 1970-1980

Island	Forest and water reserve, 1980 1/ (acres)	Forest land, 1970 (acres)		
		Total	Commercial 2/	Noncommercial 3/
State total	1,186,462	1,986,400	947,800	1,038,600
Hawaii	697,361	1,152,500	569,400	583,100
Maui	155,247	239,800	67,500	172,300
Kahoolawe	-	15,800	-	15,800
Lanai	6,150	43,900	4,500	39,400
Molokai	46,445	78,100	34,000	44,100
Oahu	119,319	205,300	126,500	78,800
Kauai	161,970	219,900	145,900	74,000
Niihau	-	31,100	-	31,100
Other islands	-	-	-	-

Island	Planted forest, June 30, 1980 (acres)		Forest and brushland fires, fiscal 1980	
	Planted in preceding year	Total standing	Number	Acres burned
State total	151	45,614	394	2,439
Hawaii	94	17,565	177	420
Maui	1	11,386	95	1,741
Kahoolawe	-	-		
Lanai	-	512		
Molokai	-	3,158		
Oahu	-	7,024	105	200
Kauai	56	5,969	17	78
Niihau	-	-		
Other islands	-	-	-	-

1/ Forest and water reserve within conservation district, as of June 30.

2/ Includes federal military, state, miscellaneous corporate, and miscellaneous individual forest land.

3/ Unproductive or productive-reserved.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 453.-- FOREST PRODUCTS HARVESTED: 1977

Forest product	Output		Unit price (dollars)	Total value (dollars)
	Unit	Amount		
All products	...	...	...	3,465,233
Logs for lumber	MBF 1	2,750	209	574,833
Logs for craftwood	Cords 2/ ..	299	224	51,330
Logs for fiber	BDT 3/	55,502	41	2,310,500
Tree fern	Cubic feet	95,000	1.42	135,000
Fuelwood from trees	Cords 2/ ..	4,191	47	194,563
Fuelwood for charcoal	Cords 2/ ..	800	34	26,820
Fuel from mill residue ...	Tons	5,000	10.50	52,500
Round posts	Posts	32,700	3.14	102,604
Split posts	Posts	3,525	2.93	10,321
Driftwood	Cords 2/ ..	2	300	600
Pallets	Number	20	20	400
Bamboo	Lineal feet	18,844	0.04	742
Kukui nuts	Tons	13.86	362	5,020

1/ Thousand board feet.
2/ One cord equals 128 cubic feet
3/ Bone dry ton, equal to 2,000 lbs. of wood at 0% moisture content.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry, Hawaiian Forest Products 1977, table II.

Table 454.-- FISHERY OPERATING UNITS AND LANDINGS: 1970 TO 1980

Year	Fishermen 1/	Vessels and boats 2/		Fishery establishments 3/	Landings 4/	
		Motor vessels	Boats		Quantity (1,000 lb.)	Value ($1,000)
1970 ...	1,436	80	686	156	11,051	3,900
1971 ...	1,533	89	812	130	16,873	5,238
1972 ...	1,732	101	839	123	14,443	5,743
1973 ...	2,091	104	1,097	125	14,035	6,115
1974 5/.	1,992	97	1,066	123	10,990	6,028
1975 ...	2,197	109	1,278	132	9,209	6,313
1976 ...	2,367	101	1,336	135	14,761	8,879
1977 ...	2,574	101	(NA)	126	13,288	10,180
1978 ...	2,409	(NA)	1,100	(NA)	12,787	12,100
1979 ...	2,447	113	1,028	(NA)	13,664	10,659
1980 ...	2,497	134	1,055	(NA)	11,435	11,870

NA Not available.

1/ Persons licensed as commercial fishermen by the Hawaii State Department of Land and Natural Resources, Fish and Game Division. Data refer to June 30 of the following year.

2/ A vessel is defined as a craft with a capacity of 5 net tons or more; a boat, as a craft with a capacity of less than 5 net tons. Data on vessels and boats refer to June 30 of the following year.

3/ Fishery wholesaling and processing establishments, as of June 30 of the year indicated.

4/ Data may differ from corresponding totals reported by the State Fish and Game Division, which, unlike the NMFS series shown here, include unsold fish.

5/ Methods of collecting data on operating units were changed in 1974.

Source: U.S. Department of Commerce, National Marine Fisheries Service, Fishery Statistics of the United States (annual, 1970-1975), and information provided August 4, 1981.

Table 455.-- COMMERCIAL FISHING: 1962 TO 1980

[Years ended June 30.]

Year	Number of commercial fishers	Commercial fish catch 1/		
		Pounds caught	Pounds sold	Value to primary producers (dollars)
1962	940	13,800,761	13,173,259	2,870,702
1963	808	10,685,604	10,629,701	2,539,189
1964	805	12,013,869	11,970,398	2,732,125
1965	717	17,105,515	17,053,925	3,340,651
1966	715	15,985,626	15,924,854	3,318,803
1967	801	12,344,555	12,274,531	3,146,177
1968	760	12,828,387	12,740,307	3,253,538
1969	1,028	10,065,623	9,974,455	2,798,424
1970	1,264	9,786,726	9,588,319	3,585,166
1971	1,373	15,176,525	14,945,539	4,633,875
1972	1,544	15,577,669	15,246,519	5,536,521
1973	1,677	14,029,491	13,719,284	5,676,783
1974	2,085	13,997,774	13,660,574	6,234,924
1975	1,991	10,801,441	10,404,019	6,242,614
1976	2,283	11,893,141	11,332,659	7,508,395
1977	2,367	15,298,515	14,763,816	9,433,781
1978	2,574	13,669,561	13,136.642	11,108,165
1979 2/ .	2,447	11,300,456	10,881,[illegible]21	11,760,278
1980 2/ .	2,497	9,563,990	9,095,649	9,674,652

1/ Represents the total catches of all licensed commercial fishers. Includes both sea and pond catch, but excludes coral harvests. Revised from previously published totals.

2/ Incomplete due to unreported aku (skipjack tuna) boat and flagline boat catches.

Source: Hawaii State Department of Land and Natural Resources, Commercial Fish Landings for Fiscal Year (annual), as revised, and records.

Table 456.-- COMMERCIAL FISH CATCH, BY SPECIES: 1979

[Calendar year data.]

Species 1/	Pounds caught	Pounds sold	Value (dollars)
Total catch 2/	10,548,248	10,106,488	10,501,177
Sea catch, all species 3/	10,530,723	10,088,966	10,477,958
Aku (Skipjack) 2/	5,135,242	5,100,554	3,438,233
Ahi (Yellowfin) 2/	2,063,697	1,950,272	2,658,093
Pacific Blue Marlin 2/	431,557	345,477	172,530
Opelu	428,004	414,668	463,329
Akule	367,429	329,458	353,623
Opakapaka	205,353	196,649	440,538
Ono 2/	198,612	170,916	304,321
Ahi (Bigeye) 2/	169,894	169,700	592,563
Mahimahi 2/	169,159	145,768	283,114
Striped Marlin 2/	110,465	101,955	136,066
Ulua	94,328	87,281	121,347
Uku	87,903	85,004	162,737
Onaga	48,780	46,198	126,060
Pond catch, total	17,525	17,522	23,219

1/ Shown separately for all species over 100,000 lb. or $100,000.

2/ Incomplete due to some unreported boat catches.

3/ Including species not shown separately.

Source follows next table.

Table 457.-- COMMERCIAL FISH LANDINGS, BY ISLANDS: 1979

[Calendar year data. Incomplete due to some unreported aku boat and flagline boat catches.]

Island	Pounds caught	Value (dollars)
State total	10,548,213	10,501,177
Hawaii	2,738,286	3,280,006
Maui	684,850	571,004
Lanai	17,236	13,278
Molokai	27,181	25,620
Oahu	6,595,895	6,140,407
Kauai	484,765	470,772

Source: Hawaii State Department of Land and Natural Resources, Report to the Governor, 1979-1980 (March 1981).

Table 458.-- MINERAL INDUSTRIES: 1958 TO 1977

[Excluding mines at manufactures.]

Subject	1958	1963	1967	1972	1977
Number of establishments 1/	20	44	12	15	7
With 20 employees or more	8	4	3	5	2
All employees: 2/					
Number (1,000)	.4	.3	.2	.3	.1
Payroll (million dollars)	1.7	1.7	1.6	2.4	1.9
Production, development, and exploration workers:					
Number 2/ (1,000)	.4	.2	.2	.2	.1
Hours (millions)	.7	.6	.4	.4	.2
Wages 2/ (million dollars)	1.4	1.5	1.3	1.8	1.5
Value added in mining (million dollars)	4.6	4.9	5.0	9.0	8.1
Cost of supplies used, purchased machinery installed, etc. (million dollars)	2.0	2.1	2.3	4.1	2.9
Value of shipments and receipts 3/ (million dollars)	5.8	6.5	5.5	11.0	9.7
Capital expenditures (million dollars)	.7	.5	1.8	2.0	1.3

Footnotes and source follow next table.

Table 459.-- MINERAL INDUSTRIES AND MINES AT MANUFACTURES: 1958 TO 1977

Subject	1958	1963	1967	1972	1977
Number of establishments 1/.........	24	49	18	21	10
With 20 employees or more	8	4	5	5	3
All employees: 2/					
Number (1,000)	.4	.3	(D)	(D)	(D)
Payroll (million dollars)	1.8	1.8	(D)	(D)	(D)
Production, development, and exploration workers:					
Number 2/ (1,000)	.4	.3	(D)	(D)	(D)
Hours (millions)	.8	.6	(D)	(D)	(D)
Wages 2/ (million dollars)	1.5	1.6	(D)	(D)	(D)
Value added in mining (million dollars)	4.9	5.7	(D)	(D)	(D)
Cost of supplies used, purchased machinery installed, etc. 4/ (million dollars)	2.0	2.3	(D)	(D)	(D)
Value of shipments and receipts 3/ (million dollars)	6.2	7.5	(D)	(D)	(D)
Capital expenditures (million dollars) 5/	.7	.5	(D)	(D)	(D)

Footnotes and source on next page.

Table 459.-- MINERAL INDUSTRIES AND MINES AT MANUFACTURES: 1958 TO 1977 - Con.

(D) Withheld to avoid disclosing operations of individual companies.

1/ In 1977, 1972, and 1967, data for companies without paid employees were excluded from the census of mineral industries.

2/ For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for hours worked. No data were obtained on other employees at such operations; hence, the same employment and payroll figures are included for all employees as for production, development, and exploration workers.

3/ For crushed and broken stone, sand and gravel, clay, and gypsum, mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For all years, represents gross value of shipments and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation.

4/ Data for mineral operations in manufacturing establishments exclude purchased machinery installed.

5/ Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

Source: U.S. Bureau of the Census, 1977 Census of Mineral Industries, Geographic Area Series, Pacific Division, MIC77-A-9 (March 1981), table 1.

Table 460.-- MINERAL PRODUCTION: 1960 TO 1980

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers.]

Year	Quantity (1,000 short tons)		Value ($1,000)			
	Cement	Stone	Total	Cement	Stone	Other minerals 1/
1960	21	3,535	9,254	571	6,443	2,240
1961	202	4,429	14,588	5,574	7,656	1,358
1962	212	4,071	14,844	6,055	6,883	1,906
1963	279	3,844	15,307	7,125	6,480	1,702
1964	323	5,282	19,605	8,877	8,765	1,963
1965	294	5,1[illegible]2	20,835	8,297	9,353	3,185
1966	329	5,079	21,253	9,046	9,482	2,725
1967	262	4,100	16,936	7,360	7,207	2,369
1968	346	5,211	23,225	9,254	11,273	2,698
1969	390	6,534	29,539	10,544	16,059	2,936
1970	406	6,331	28,965	10,334	15,538	3,093
1971	386	6,056	28,107	10,627	14,357	3,123
1972	415	5,005	28,074	11,116	13,494	3,464
1973	469	7,180	35,147	13,750	18,466	2,931
1974	502	7,638	42,042	17,111	21,370	3,561
1975	469	7,569	49,710	20,704	25,319	3,687
1976	339	6,092	42,252	18,410	21,193	2,649
1977	330	5,759	39,980	16,922	19,880	3,178
1978	452	6,027	52,743	26,454	23,840	2,449
1979 2/ ..	481	6,869	63,904	30,423	28,969	4,512
1980 3/ ..	393	6,301	61,257	27,500	29,700	4,057

1/ Chiefly sand and gravel; pumice, pumicite, and volcanic cinder; and lime.

2/ Revised from 1980 edition, table 406.

3/ Preliminary.

Source: U.S. Bureau of Mines, Minerals Yearbook (annual), "The Mineral Industry in Hawaii," Mineral Industry Surveys (annual preliminary and advance summary reports), and Minerals in the Economy of Hawaii (annual, 1978 and 1979).

Table 461.-- NONFUEL MINERAL PRODUCTION: 1979 AND 1980

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers.]

Mineral	Quantity (1,000 short tons)		Value ($1,000)	
	1979 1/	1980 2/	1979 1/	1980 2/
Total	(X)	(X)	63,904	61,257
Cement:				
Portland	469	379	29,346	26,100
Masonry	12	14	1,077	1,400
Gem stones	(NA)	(NA)	(W)	19
Pumice	359	397	1,240	1,586
Sand and gravel	1,081	800	3,063	2,300
Stone:				
Crushed	6,868	6,300	28,969	29,700
Dimension	1	1	(W)	(W)
Other nonmetals 3/	(X)	(X)	209	152

W Withheld to avoid disclosing company proprietory data; included with "other nonmetals."

X Not applicable.

NA Not available.

1/ Revised from 1980 edition, table 406.

2/ Preliminary.

3/ Includes items indicated by symbol W.

Source: U.S. Bureau of Mines, "The Mineral Industry of Hawaii in 1980," Mineral Industry Surveys (January 16, 1981).

Section 21

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing, sales, and residential financing.

There were 22,771 building permits issued in 1980, with an estimated value of $1,279 million. The total included $737 million for private residential construction and $481 million for private nonresidential structures. The value of government construction contracts awarded was $231 million. Construction put in place, as indicated by the contracting tax base, totaled $783 million in 1970 and $1.57 billion in 1980. The value of land transfers in 1980 was $3.9 billion. Mortgage loans outstanding at the end of 1979 amounted to $6.3 billion. The May 1981 construction cost index for Honolulu (1967=100) was 285.1 for single-family residences and 303.8 for high-rise buildings.

The number of housing units in the State increased from 217,000 in 1970 to 343,000 in 1981. Owner occupied units numbered 89,000 in 1970 and 142,000 in 1981; the latter total included 105,000 on land owned in fee simple and 37,000 on leased land. Condominium units, first authorized in 1961, numbered 80,000 at the end of 1980. Military and public housing accounted for 26,000 units as of 1981. Housing was in short supply throughout most of the past decade: on Oahu, the vacancy rate in March 1981, according to the Federal Home Loan Bank, was only 1.4 percent. The average selling price of single family homes on Oahu during the year ended February 28, 1981, based on Multiple Listing Service data, was $169,000. The median gross monthly rent for Oahu rose from $140 in 1970 to $234 in 1976, and the median value of owner occupied units in the latter year was well above $75,000.

The principal sources for these data are the 1970 and 1980 U.S. Censuses of Housing, the 1976 Honolulu Housing Survey, postal vacancy surveys issued by the Federal Home Loan Bank, various series compiled by State and County agencies (primarily the Hawaii Housing Authority, Hawaii State Department of Planning and Economic Development, Department of Regulatory Agencies, Department of Taxation, and Bureau of Conveyances, and the four County building departments), the construction cost indexes prepared by the First Hawaiian Bank, and the Honolulu Board of Realtors reports on Multiple Listing Service activity. Many of these series are summarized in reports published by the Bank of Hawaii (particularly Construction in Hawaii, issued annually) and the First Hawaiian Bank. Persons interested in figures for earlier periods should consult Historical Statistics of Hawaii, Section 15. Mainland statistics appear in Section 28 of Statistical Abstract of the United States: 1980.

Table 462.-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES: 1970 TO 1980

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1970	23,162	16,792	3,402	514	2,454
1971	24,562	17,239	3,876	556	2,891
1972	25,342	17,706	3,982	862	2,792
1973	30,581	22,767	4,260	1,132	2,422
1974	26,027	19,169	3,635	1,066	2,157
1975	23,287	16,514	3,506	1,255	2,012
1976	23,453	15,937	3,535	1,195	2,786
1977	23,406	15,793	3,536	1,173	2,904
1978	25,807	17,758	3,938	1,470	2,641
1979	26,515	18,297	4,062	1,540	2,616
1980	22,771	15,729	3,732	1,210	2,040
ESTIMATED VALUE ($1,000)					
1970	506,649	386,687	61,362	15,777	42,823
1971	416,695	298,630	61,237	15,768	41,060
1972	508,261	364,835	69,016	25,741	48,669
1973	649,121	480,639	56,376	31,578	80,528
1974	831,897	594,896	85,350	36,745	114,906
1975	744,494	495,871	69,691	53,099	125,833
1976	581,226	411,497	58,137	29,921	81,671
1977	534,278	356,591	62,088	32,060	83,539
1978	756,757	421,692	81,965	59,858	193,242
1979	984,559	566,991	144,768	118,453	154,347
1980	1,278,911	745,565	146,395	133,261	253,690

Source: City and County of Honolulu Department of Buildings, Summary of Building Permits (annual); Hawaii, Kauai, and Maui County departments of public works, records.

Table 463.-- VALUE OF BUILDING PERMITS, RESIDENTIAL AND NONRESIDENTIAL, BY COUNTIES: 1970 TO 1980

[In thousands of dollars. Limited to private construction, including additions, alteration, and repairs.]

Category and year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
RESIDENTIAL					
1970	224,147	173,815	23,226	8,691	18,417
1971	254,145	181,246	36,926	10,017	25,957
1972	323,756	228,104	42,657	19,808	33,188
1973	460,490	347,767	39,045	21,829	51,850
1974	538,869	376,170	49,995	19,992	92,711
1975	382,552	228,155	38,698	20,009	95,690
1976	259,348	179,674	29,243	13,346	37,086
1977	311,333	192,334	39,505	21,197	58,298
1978	437,601	223,539	60,963	49,005	104,094
1979	588,685	288,863	91,942	100,024	107,857
1980	736,623	338,259	108,360	74,795	215,209
NONRESIDENTIAL					
1970	188,154	142,995	25,338	4,855	14,966
1971	113,709	86,047	19,236	3,126	5,300
1972	131,274	98,840	16,614	3,256	12,563
1973	137,873	94,123	11,666	6,799	25,284
1974	209,904	156,961	23,920	10,908	18,114
1975	227,272	179,006	11,018	16,086	21,163
1976	196,425	144,455	10,505	3,755	37,710
1977	153,570	118,429	11,850	6,822	16,469
1978	233,006	147,059	13,408	7,711	64,829
1979	290,249	217,219	20,547	13,896	38,587
1980	480,594	346,217	37,598	58,299	38,480

Source: First Hawaiian Bank, Hawaii's Economic Indicators. Sources, Definitions, and Trends (March 1980), pp. 28-30 and 35-37, and records.

Table 464.-- ESTIMATED VALUE PER UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1959 TO 1979

[In dollars. Excludes building permits for additions, alterations and repair.]

Year issued	Single-family	Two-family	Multi-family	Hotel 1/
1959	10,601	6,429	8,381	5,659
1960	11,607	7,539	9,167	4,331
1961	12,222	9,361	7,499	5,836
1962	12,942	9,059	11,186	8,429
1963	12,889	9,246	9,056	(2/)
1964	13,549	9,103	9,274	7,195
1965	13,871	11,749	10,533	8,190
1966	15,700	11,750	14,450	6,553
1967	16,982	10,934	12,913	9,834
1968	18,134	11,632	15,607	10,151
1969	19,427	16,222	16,745	14,638
1970	20,204	23,160	22,521	16,377
1971	22,597	18,389	18,063	14,970
1972	26,840	19,446	18,164	16,181
1973	33,548	20,781	21,086	15,649
1974	37,901	22,176	24,411	26,013
1975	37,203	21,483	36,002	27,434
1976	37,138	27,793	32,335	25,506
1977	36,668	29,366	34,900	(2/)
1978	51,329	35,877	40,209	(2/)
1979	54,373	43,041	43,399	(2/)

1/ Estimated value per room.

2/ No permit issued.

Source: City and County of Honolulu Department of Building, "Summary of Building Permits" (annual), and records.

Table 465.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY AWARDING AGENCY: 1961 TO 1980

[In thousands of dollars.]

Calendar year 1/	Total	Federal agencies	State agencies	City and County of Honolulu	Other counties
1961 ...	68,635	13,872	29,010	23,707	2,047
1962 ...	69,357	17,563	23,039	25,321	3,434
1963 ...	81,136	16,533	38,717	19,785	6,101
1964 ...	87,003	44,309	20,725	21,757	212
1965 ...	139,753	64,963	46,052	28,635	102
1966 ...	76,788	24,175	28,748	19,539	4,326
1967 ...	137,567	34,581	63,889	35,777	3,320
1968 ...	141,910	38,285	64,297	37,010	2,318
1969 ...	256,288	59,125	165,801	24,818	6,544
1970 ...	176,237	34,508	107,808	30,507	3,414
1971 ...	175,348	54,479	99,500	17,886	3,483
1972 ...	214,612	71,254	117,395	17,101	8,862
1973 ...	261,723	118,052	97,783	36,294	9,594
1974 ...	299,361	102,193	148,731	25,002	23,435
1975 ...	450,250	94,546	227,781	102,007	25,916
1976 ...	382,333	135,817	146,819	58,680	41,017
1977 ...	286,452	85,415	135,360	43,772	21,905
1978 ...	290,004	94,648	155,463	24,999	14,894
1979 2/.	388,694	105,683	221,018	45,946	16,048
1980 ...	230,619	66,510	119,994	25,632	18,483

1/ By date of publication.
2/ Revised from 1980 edition, table 409.
Source: Hawaii State Department of Planning and Economic Development, Government Construction Contracts Awarded in Hawaii, 1961-1978 (Statistical Report 129, December 13, 1978), table 1; and Trade Publishing Company, BIDService Weekly.

Table 466.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY LOCATION OF CONSTRUCTION: 1961 TO 1980

[In thousands of dollars.]

Calendar year 1/	Total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1961 ...	68,635	54,443	7,271	3,749	3,172
1962 ...	69,357	56,920	4,622	2,493	5,323
1963 ...	81,136	64,856	9,012	824	6,445
1964 ...	87,003	73,417	5,039	4,953	3,594
1965 ...	139,753	126,970	2,118	7,026	3,639
1966 ...	76,788	61,308	5,066	6,658	3,758
1967 ...	137,567	114,903	13,502	3,085	6,077
1968 ...	141,910	120,075	12,083	6,126	3,627
1969 ...	256,288	207,413	36,078	6,852	5,944
1970 ...	176,237	143,828	17,084	3,595	11,730
1971 ...	175,348	149,369	14,622	4,845	6,512
1972 ...	214,612	179,159	19,684	7,927	7,842
1973 ...	261,723	228,427	19,616	7,709	5,971
1974 ...	299,361	243,465	34,842	15,095	5,959
1975 ...	450,250	354,020	41,576	31,580	23,075
1976 ...	382,333	294,072	38,656	14,310	35,296
1977 ...	286,452	221,126	26,884	11,579	26,863
1978 ...	290,004	224,074	23,384	10,140	32,406
1979 ...	388,694	313,105	33,411	12,954	29,224
1980 ...	230,619	168,131	33,766	11,079	17,642

1/ By date of publication.

Source: Hawaii State Department of Planning and Economic Development, Government Construction Contracts Awarded in Hawaii, 1961-1978 (Statistical Report 129, December 13, 1978), table 1; and Trade Publishing Company, BIDService Weekly.

Table 467.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1979 AND 1980

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
New 1-family dwellings:						
1979	5,997	3,046	2,951	1,429	512	1,010
1980	4,072	1,650	2,422	1,192	427	803
New duplex units:						
1979	208	134	74	16	44	14
1980	84	46	38	12	24	2
New apartments:						
1979	4,800	1,854	2,946	737	1,125	1,084
1980	5,163	1,854	3,309	727	769	1,813
Units demolished:						
1979	611	460	151	60	15	76
1980	766	665	101	63	6	32

Source: Compiled by the Hawaii State Department of Planning and Economic Development from County building departments.

Table 468.-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF HAWAII: 1979 AND 1980

Calendar year	Projects	Units	
		Residential	Business or commercial
1979	150	11,805	82
1980	156	9,953	594

Source: Hawaii State Department of Regulatory Agencies, Professional and Vocational Licensing Division, records.

Table 469.-- NUMBER OF CONDOMINIUM UNITS BUILT AND STANDING: 1970 TO 1980

Year	Condominium units added to inventory during year					Condominium units standing, Dec. 31
	All types	1-family and duplex	Town-house	Low-rise	High-rise	
1970	4,908	6	939	874	3,089	15,320
1971	4,318	-	1,062	382	2,874	19,638
1972	2,835	12	770	914	1,139	22,473
1973	6,741	36	1,596	1,619	3,490	29,214
1974	9,275	235	1,775	2,112	5,153	38,489
1975	10,798	68	1,760	2,922	6,043	49,287
1976	7,357	112	655	260	6,330	56,644
1977	3,321	40	942	883	1,456	59,965
1978	3,210	4	604	810	1,792	63,175
1979	6,816	97	1,156	1,447	4,116	69,991
1980	10,441	74	3,263	2,553	4,551	80,432

Source: Bank of Hawaii, Department of Business Research, State of Hawaii Condominium Inventory 1962-1978 (June 1979), and Construction in Hawaii, 1981 (June 1981), p. 6.

Table 470.-- CHARACTERISTICS OF CONDOMINIUM UNITS, BY COUNTIES: DECEMBER 31, 1978

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Total inventory	63,175	49,888	2,741	1,594	8,952
Type of structure:					
Single-family and duplex ..	724	598	-	71	55
Townhouse	10,796	8,302	695	433	1,366
Lowrise	12,464	5,488	1,635	1,054	4,287
Highrise	39,191	35,500	411	36	3,244
Original status:					
New	58,269	45,462	2,586	1,486	8,735
Converted	4,906	4,426	155	108	217
Land ownership:					
Fee simple	20,449	14,505	1,090	802	4,052
Leasehold	42,726	35,383	1,651	792	4,900
Occupancy:					
Resident use	53,683	46,496	1,967	687	4,533
Transient use	9,492	3,392	774	907	4,419

Source: Bank of Hawaii, Department of Business Research, State of Hawaii Condominium Inventory 1962-1978 (June 1979).

Table 471.-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO CONDOMINIUM UNITS: 1963 TO 1980

Calendar year	Projects	Housing units
1963-69	20	768
1970	4	237
1971	4	265
1972	7	294
1973	11	535
1974	7	349
1975	12	568
1976	15	785
1977	10	476
1978	20	878
1979	26	1,334
1980	71	3,397
Total, 1963-80	207	9,886

Source: Real Estate Research Center, College of Business Administration, University of Hawaii, from the records of the Hawaii Real Estate Commission.

Table 472.-- HONOLULU CONSTRUCTION COST INDEXES: 1970 TO 1981

[1967=100. Data are annual averages unless otherwise specified.]

Year	Single-family residence			High-rise building		
	All components	Materials prices	Labor 1/	All components	Materials prices	Labor 1/
1970	118.0	112.9	124.5	117.9	109.3	125.2
1971	125.7	116.5	137.4	125.1	110.8	137.7
1972	135.2	123.1	150.6	133.6	114.6	150.0
1973	154.7	150.0	160.9	144.9	129.7	160.6
1974	164.6	159.0	171.6	163.7	154.6	175.6
1975	175.7	167.1	186.6	178.8	171.3	185.3
1976	193.9	176.3	215.9	199.1	178.5	216.9
1977	221.2	197.7	251.2	221.9	188.1	251.2
1978	243.4	218.7	274.5	241.3	204.7	273.1
1979	266.2	248.3	288.8	264.3	237.6	287.5
1980	283.2	263.8	307.8	290.1	270.5	307.1
1981: July.	290.8	255.3	335.6	307.3	275.3	335.0

1/ Wages and benefits.
Source: First Hawaiian Bank, records.

Table 473.-- CHARACTERISTICS OF CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1972 AND 1977

Industry	SIC code	Number of establishments		Proprietors and working partners	
		1972	1977	1972	1977
Construction industries and subdividers and developers	...	2,318	3,170	1,327	2,020
Construction industries	15-17	2,183	3,029	1,265	1,848
General building contractors and operative builders ...	15	703	843	343	459
Heavy construction general contractors	16	92	114	39	50
Special trade contractors ..	17	1,387	2,072	882	1,340
Plumbing, heating, air conditioning	1711	202	296	106	183
Electrical work	1731	176	256	88	99
Subdividers and developers, n.e.c.	6552	135	145	62	172

Industry	SIC code	All employees 1/		All business receipts ($1,000)	
		1972	1977	1972	1977
Construction industries and subdividers and developers	...	25,012	20,792	1,109,328	1,508,865
Construction industries	15-17	24,460	20,187	1,046,508	(D)
General building contractors and operative builders ...	15	9,900	7,944	563,928	779,765
Heavy construction general contractors	16	3,147	2,319	124,794	(D)
Special trade contractors ..	17	11,413	9,924	357,785	469,024
Plumbing, heating, air conditioning	1711	1,932	1,731	69,902	93,530
Electrical work	1731	1,656	1,687	63,422	87,466
Subdividers and developers, n.e.c.	6552	552	607	62,819	(D)

D Withheld to avoid disclosing data for individual companies.
n.e.c. Not elsewhere classified.
1/ Average of totals for mid-March, mid-May, mid-August, and mid-November.

Source: U.S. Bureau of the Census, 1977 Census of Construction Industries, Geographic Area Series, Pacific States, CC77-A-9 (August 1980), p. 51-4.

Table 474.-- GENERAL EXCISE TAX BASE FOR CONTRACTING AND RENTALS: 1970 TO 1980

[In thousands of dollars.]

Year reported 1/	Contracting	Rentals		
		Total	Hotel rentals	All other rentals 2/
1970	782,972	531,668	176,923	354,745
1971	692,938	573,606	198,539	375,067
1972	695,939	649,954	227,058	422,895
1973	904,629	761,447	264,519	496,928
1974	1,027,195	893,347	319,109	574,237
1975	1,161,913	1,019,792	365,919	653,873
1976	1,012,952	1,161,955	433,300	728,655
1977 3/	983,618	1,274,918	482,990	791,929
1978 3/	1,060,898	1,392,947	535,874	857,073
1979	1,325,460	1,699,947	672,098	1,027,848
1980	1,569,658	1,820,715	708,620	1,112,095

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes residential, office, automobile, and equipment rentals, and land leases.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 475.-- TENURE AND CONTROL OF HOUSING: 1970 TO 1981

Year	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 4/	State and County 4/
1970 ...	216,774	68,422	20,802	106,821	14,439	6,290
1971 ...	228,749	72,086	21,732	113,531	15,089	6,311
1972 ...	238,770	75,939	24,565	117,111	14,959	6,196
1973 ...	250,742	78,878	26,776	123,934	15,071	6,083
1974 ...	266,828	82,494	30,333	131,368	16,373	6,260
1975 ...	284,120	85,264	30,543	145,276	16,386	6,651
1976 ...	298,339	88,284	33,730	152,578	17,225	6,522
1977 ...	306,989	89,980	34,549	158,223	17,493	6,744
1978 ...	315,513	92,989	35,869	161,728	18,653	6,274
1979 ...	324,261	96,273	36,540	165,045	19,022	7,381
1980 ...	334,235	100,478	36,986	170,963	19,437	6,371
1981 ...	342,889	104,677	37,413	174,769	19,427	6,603

NA Not available.

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions. The number of owner occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions. Data for 1977-1981 refer to January 1; data for 1970-1976, to July 1.

3/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

4/ As of April 1. Data include housing units leased from private owners.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1981 (Statistical Report 148, July 15, 1981), table 3; U.S. Bureau of the Census, 1980 census correction note sent August 20, 1981.

Table 476.-- HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY, 1970 TO 1981

[As of April 1.]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
1970 ..	216,774	174,742	42,032	18,972	9,021	14,039
1971 ..	228,749	184,101	44,648	20,061	9,298	15,289
1972 ..	238,770	190,973	47,797	21,648	9,555	16,594
1973 ..	250,742	198,970	51,772	23,578	10,092	18,102
1974 ..	266,828	210,940	55,888	25,282	10,700	19,906
1975 ..	284,120	223,647	60,473	26,694	11,347	22,432
1976 ..	298,339	232,669	65,670	28,131	11,934	25,605
1977 ..	306,989	237,571	69,418	29,453	12,433	27,532
1978 ..	315,513	243,103	72,410	30,579	12,841	28,990
1979 ..	324,261	247,465	76,796	32,283	13,610	30,903
1980 ..	334,235	252,038	82,197	34,215	14,828	33,154
1981 ..	342,889	254,985	87,904	36,180	16,314	35,410

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1981 (Statistical Report 148, July 15, 1981), table 4; U.S. Bureau of the Census, 1980 census correction note sent August 20, 1981.

Table 477.-- TENURE AND CONTROL OF HOUSING, BY COUNTIES: 1970 AND 1980

[Condominium units occupied by nonresidents are included in the totals for both 1970 and 1980.]

Year and county	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 4/	State and County 4/
1970						
State total	216,774	68,422	20,802	106,821	14,439	6,290
City & Co. of Honolulu	174,742	48,263	20,409	86,526	14,400	5,144
County of Hawaii	18,972	9,298	249	8,858	20	547
County of Kauai	9,021	3,509	74	5,218	4	216
County of Maui 5/	14,039	7,352	70	6,219	15	383
1980						
State total	334,235	100,478	36,986	170,963	19,437	6,371
City & Co. of Honolulu	252,038	69,147	35,278	123,454	19,290	4,869
County of Hawaii	34,215	15,111	964	17,191	57	892
County of Kauai	14,828	5,551	126	8,833	64	254
County of Maui 5/	33,154	10,669	618	21,485	26	356

1/ As of April 1. The 1970 data are census counts corrected for the misclassification of governmental units on Oahu and in Kalawao, as published by the Honolulu Department of Housing and Community Development. The 1980 data are advance 1980 census counts.

2/ As of July 1, 1970 and January 1, 1980. Based on the number of taxpayers claiming home exemptions, rather than on the census tabulations on tenure.

3/ Calculated as a residual and not attributable to any specific month.

4/ As of April 1.

5/ Includes Kalawao County (117 units in 1970 and 121 units in 1980, all owned by the State).

Source: Honolulu Redevelopment Agency, Redevelopment and Housing Research, No. 30, July 1970, p. 6; Honolulu Department of Housing and Community Development, Housing and Community Development Research, No. 35, July 1975, p. 11; Hawaii State Department of Taxation, annual tabular releases; Hawaii State Census Statistical Areas Committee, The Geographic Distribution of Government Housing in Hawaii, 1980 (Report CTC-45, July 1, 1980), table 1; U.S. Bureau of the Census, 1980 Census of Population and Housing, PHC80-V-13, table 1, as corrected August 20, 1981.

Table 478.-- TENURE AND CONTROL OF HOUSING, BY COUNTIES: 1981

County	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units 3/		
		Land owned	Land leased	Private 4/	Federal 1/	State and County 1/
State total	342,889	104,677	37,413	174,769	19,427	6,603
City & Co. of Honolulu	254,985	72,078	35,634	122,974	19,286	5,013
County of Hawaii	36,180	15,845	1,023	18,283	49	980
County of Kauai	16,314	5,804	125	10,066	65	254
County of Maui	35,410	10,950	631	23,446	27	356

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions, as of January 1.

3/ Data for both Federal and State agencies include housing units leased by these agencies from private owners. All data are as of April 1.

4/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus are not attributable to any specific date.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1981 (Statistical Report 148, July 15, 1981), table 2.

Table 479.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970

Subject	1976	1970
Population in housing units	662,000	593,100
All housing units	219,600	174,200
Vacant--seasonal and migratory	300	100
Tenure, race, and vacancy status		
All year-round housing units	219,300	174,100
Occupied	200,400	164,800
Owner occupied	96,100	74,200
Percent of all occupied	47.9	45.0
Renter occupied	104,300	90,600
Vacant year-round	18,900	9,300
For sale only	5,100	1,100
Homeowner vacancy rate	5.0	1.5
Cooperative or condominium	4,500	(NA)
For rent	6,600	4,500
Rental vacancy rate	6.0	4.7
Rented or sold, not occupied	2,000	1,100
Held for occasional use	2,000	1,600
Other vacant	3,200	1,000
Units in structure		
All year-round housing units	219,300	174,100
1, detached	115,200	98,800
1, attached	12,000	3,600
2 to 4	21,000	20,700
5 or more	71,200	51,000
Mobile home or trailer	-	100
Owner occupied	96,100	74,200
1, detached	78,500	65,600
1, attached	2,800	300
2 to 4	2,300	2,800
5 or more	12,500	5,400
Mobile home or trailer	-	-
Renter occupied	104,300	90,600
1, detached	33,200	29,400
1, attached	8,100	3,300
2 to 4	17,500	17,100
5 to 9	12,400	13,000
10 to 19	10,600	12,200
20 to 49	8,900	7,500
50 or more	13,600	8,000
Mobile home or trailer	-	-

Continued on next page.

Table 479.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 - Con.

Subject	1976	1970
Year structure built		
All year-round housing units	219,300	174,100
April 1970 or later	50,000	(NA)
1965 to March 1970	37,000	38,000
1960 to 1964	35,600	34,600
1950 to 1959	44,700	45,600
1940 to 1949	24,400	24,800
1939 or earlier	27,600	27,400
Plumbing facilities		
All year-round housing units	219,300	174,100
With all plumbing facilities	215,900	168,800
Lacking some or all plumbing facilities	3,500	5,300
Complete bathrooms		
All year-round housing units	219,300	174,100
1	112,100	122,000
1 and one-half	31,800	
2 or more	70,800	46,000
Also used by another household	2,600	6,100
None	2,000	
Complete kitchen facilities		
All year-round housing units	219,300	174,100
For exclusive use of household	213,400	169,000
Also used by another household	1,100	5,100
No complete kitchen facilities	4,800	
Rooms		
All year-round housing units	219,300	174,100
1 room	10,200	9,600
2 rooms	9,400	15,500
3 rooms	30,100	22,400
4 rooms	46,900	35,400
5 rooms	56,600	44,300
6 rooms	34,900	28,100
7 rooms or more	31,300	18,800
Median	4.7	4.6

Continued on next page.

Table 479.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 - Con.

Subject	1976	1970
Bedrooms		
All year-round housing units	219,300	174,100
None	11,400	10,600
1	35,100	26,600
2	55,400	48,300
3	88,600	69,900
4 or more	28,800	18,700
All occupied housing units	200,400	164,800
Persons		
Owner occupied	96,100	74,200
1 person	8,400	4,800
2 persons	23,300	14,300
3 persons	17,000	13,000
4 persons	20,700	15,100
5 persons	14,400	11,500
6 persons	6,400	7,300
7 persons or more	5,900	8,000
Median	3.5	3.8
Renter occupied	104,300	90,600
1 person	21,200	16,100
2 persons	28,600	22,700
3 persons	18,600	16,600
4 persons	17,700	15,000
5 persons	9,800	9,500
6 persons	4,700	5,400
7 persons or more	3,800	5,400
Median	2.6	2.9
Persons per room		
Owner occupied	96,100	74,200
0.50 or less	40,300	24,200
0.51 to 1.00	48,600	38,400
1.01 to 1.50	5,700	8,300
1.51 or more	1,500	3,200
Renter occupied	104,300	90,600
0.50 or less	35,400	22,300
0.51 to 1.00	56,400	48,400
1.01 to 1.50	8,400	11,800
1.51 or more	4,200	8,100

Continued on next page.

Table 479.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 - Con.

Subject	1976	1970
With all plumbing facilities	197,900	159,900
Owner occupied	96,000	73,500
1.00 or less	88,800	62,100
1.01 to 1.50	5,700	8,300
1.51 or more	1,500	3,100
Renter occupied	101,900	86,400
1.00 or less	89,400	67,400
1.01 to 1.50	8,400	11,600
1.51 or more	4,100	7,500
Household composition		
Owner occupied	96,100	74,200
2-or-more-person households	87,700	69,400
Male head, wife present, no nonrelatives	75,800	60,100
Other male head	4,600	3,800
Female head	7,200	5,600
1-person households	8,400	4,800
Renter occupied	104,300	90,600
2-or-more-person households	83,100	74,500
Male head, wife present, no nonrelatives	59,900	57,100
Other male head	11,000	6,800
Female head	12,200	10,700
1-person households	21,200	16,100
Year head moved into unit		
Owner occupied	96,100	74,200
1975 or later	13,200	(NA)
Moved in within past 12 months	8,300	(NA)
April 1970 to 1974	29,200	(NA)
1965 to March 1970	18,400	30,700
1960 to 1964	12,300	16,500
1950 to 1959	15,600	18,200
1949 or earlier	7,400	8,700
Renter occupied	104,300	90,600
1975 or later	57,200	(NA)
Moved in within past 12 months	41,500	(NA)
April 1970 to 1974	30,000	(NA)
1965 to March 1970	9,900	74,700
1960 to 1964	3,600	8,900
1950 to 1959	2,300	4,700
1949 or earlier	1,300	2,300

Continued on next page.

Table 479.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 - Con.

Subject	1976	1970
All year-round housing units	219,300	174,100
Air conditioning		
Room unit(s)	35,100	21,700
Central system	4,800	1,400
None	179,400	151,000
Elevator in structure		
4 floors or more	36,800	16,200
With elevator	31,500	13,400
Walk-up	5,300	2,900
1 to 3 floors	182,500	157,900
Basement		
With basement	17,500	21,200
No basement	201,900	143,600
Sewage disposal		
Public sewer	194,800	149,100
Septic tank or cesspool	24,500	24,000
Other	-	900
All occupied housing units	200,400	164,800
Telephone available		
Yes	189,700	152,200
No	10,700	12,600
Automobiles and trucks available		
Automobiles:		
1	91,000	78,800
2	63,700	55,100
3 or more	21,200	13,000
None	24,500	17,800
Trucks:		
1	17,200	(NA)
2 or more	1,300	(NA)
None	181,900	(NA)

Continued on next page.

Table 479.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 - Con.

Subject	1976	1970
All occupied housing units -- Continued		
Owned second home		
Yes	4,400	6,600
No	196,000	158,200
Cooking fuel		
Utility gas	33,900	33,100
Bottled, tank, or LP gas	4,200	3,600
Electricity	160,500	125,000
Fuel oil, kerosene, etc.	300	800
Other fuel	-	-
None	1,500	2,200

Source follows next table.

Table 480.-- FINANCIAL CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970

Subject	1976	1970
All occupied housing units	200,400	164,800
INCOME 1/		
Owner occupied	96,100	74,200
Median	23,600	14,900
Renter occupied	104,300	90,600
Median	11,000	8,000
Specified owner occupied 2/	79,400	65,000
VALUE		
Less than $5,000	100	200
$5,000 to $9,999	100	500
$10,000 to $12,499	-	500
$12,500 to $14,999	-	400
$15,000 to $17,499	-	800
$17,500 to $19,999	100	1,100
$20,000 to $24,999	300	4,800
$25,000 to $29,999	500	18,800
$30,000 to $34,999	1,100	
$35,000 to $39,999	1,000	23,400
$40,000 to $49,999	2,700	
$50,000 to $59,999	7,100	14,400
$60,000 to $74,999	17,700	
$75,000 or more	48,600	
Median	75,000+	38,500
VALUE-INCOME RATIO		
Median	3.1	2.6
SELECTEL MONTHLY HOUSING COSTS 3/		
Units with a mortgage	58,800	NA
Less than $100	100	NA
$100 to $119	100	NA
$120 to $149	800	NA
$150 to $174	1,400	NA
$175 to $199	2,400	NA
$200 to $224	2,700	NA
$225 to $249	3,300	NA

Continued on next page.

Table 480.-- FINANCIAL CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Con.

Subject	1976	1970
SELECTED MONTHLY HOUSING COSTS 3/ -- Con.		
$250 to $274	3,400	NA
$275 to $299	3,100	NA
$300 to $349	6,100	NA
$350 to $399	5,500	NA
$400 to $499	10,400	NA
$500 or more	14,600	NA
Not reported	4,900	NA
Median	382	NA
Units owned free and clear	20,600	NA
Less than $50	2,000	NA
$50 to $69	3,900	NA
$70 to $79	2,700	NA
$80 to $89	2,400	NA
$90 to $99	2,100	NA
$100 to $119	2,200	NA
$120 to $149	1,700	NA
$150 to $199	600	NA
$200 or more	300	NA
Not reported	2,500	NA
Median	81	NA
SELECTED MONTHLY HOUSING COSTS AS PERCENTAGE OF INCOME 3/		
Units with a mortgage	58,800	NA
Median	18	NA
Units owned free and clear	20,600	NA
Median	6	NA
GROSS RENT		
Specified renter occupied 4/	104,200	90,200
Less than $50	1,400	3,900
$50 to $59	1,100	3,000
$60 to $69	900	2,800
$70 to $79	1,500	2,600
$80 to $99	2,600	6,100
$100 to $119	2,000	11,600
$120 to $149	4,600	14,000
$150 to $174	10,200	18,600
$175 to $199	11,100	

Continued on next page.

Table 480.-- FINANCIAL CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Con.

Subject	1976	1970
GROSS RENT -- Con.		
$200 to $224	11,300	11,400
$225 to $249	8,900	
$250 to $274	8,700	
$275 to $299	8,400	
$300 to $349	11,900	5,000
$350 or more	15,300	
No cash rent	4,300	11,300
Median	234	140
Nonsubsidized renter occupied 5/	82,300	NA
Median	241	NA
GROSS RENT AS PERCENTAGE OF INCOME		
Specified renter occupied 4/	104,200	90,200
Less than 10 percent	6,400	8,500
10 to 14 percent	11,300	13,000
15 to 19 percent	16,600	13,200
20 to 24 percent	13,500	10,000
25 to 34 percent	18,900	11,700
35 percent or more	32,900	20,400
Not computed	4,600	13,500
Median	26	22
Nonsubsidized renter occupied 5/	82,300	NA
Median	27	NA
CONTRACT RENT		
Specified renter occupied 4/	104,200	90,200
Median	218	130

Footnotes and source on next page.

Table 480.-- FINANCIAL CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Con.

1/ Income of families and primary individuals in 12 months preceding date of enumeration.

2/ Limited to 1-family homes on less than 10 acres and no business on property.

3/ Sum of payments for real estate taxes, property insurance, utilities, fuel, water, garbage and trash collections, and mortgage at time of enumeration.

4/ Excludes 1-family homes on 10 acres or more.

5/ Excludes 1-family homes on 10 acres or more, mobile homes or trailers, housing units in public housing projects, and housing units with government rent subsidies; includes units where the subsidized/nonsubsidized status was not reported.

Source: U.S. Department of Commerce and U.S. Department of Housing and Urban Development, Current Housing Reports, Annual Housing Survey: 1976, Honolulu, Hawaii, Standard Metropolitan Statistical Area, H-170-76-48 (GPO, October 1978), tables A-1 and A-2.

Table 481.-- CHARACTERISTICS OF SINGLE-FAMILY AND MULTIFAMILY DEVELOPMENTS, FOR OAHU: 1975 TO 1980

[For earlier years, see source.]

Year	Single-family developments				Multifamily developments 1/		
	Average area (square feet)		Units sold	Average price (dollars)	Average living area (sq. ft.)	Units sold	Average price (dollars)
	House	Lot					
1975 ..	1,341	6,281	671	79,046	1,092	1,227	53,904
1976 ..	1,259	6,151	658	77,895	1,181	917	56,275
1977 ..	1,261	6,167	1,164	79,266	1,125	553	56,543
1978 ..	1,442	5,932	1,566	102,479	1,133	438	68,149
1979 ..	1,493	4,753	1,696	114,731	1,153	346	87,480
1980 ..	1,291	4,631	813	131,693	1,190	740	93,428

1/ Four stories or under.

Source: Bank of Hawaii, Construction in Hawaii, 1981 (June 1981), pp. 9-10.

Table 482.-- HAWAII HOUSING AUTHORITY OPERATIONS: 1970 TO 1980

Year	Units managed by HHA 1/ Total	Units managed by HHA 1/ Occupied	Population in units 1/	Total assets 1/ ($1,000)
1970	4,974	4,737	19,791	69,522
1971	4,917	4,683	18,806	75,003
1972	5,403	5,333	19,368	80,848
1973	5,406	5,361	19,078	82,060
1974	5,547	5,407	18,898	72,826
1975	5,442	5,419	18,175	81,169
1976	5,515	5,498	17,783	88,426
1977 3/ ...	5,555	5,524	18,214	80,843
1978	5,404	5,349	16,799	83,098
1979	5,461	5,391	16,819	103,787
1980	5,466	5,459	17,522	327,960 4/

Year	Operating revenues of HHA 2/ ($1,000) Gross	Operating revenues of HHA 2/ ($1,000) Net	Operating revenues per unit per mo. 2/ (dollars)	Average rent charged 2/ (dollars)
1970	4,991	48	87.79	79.01
1971	6,238	54	111.00	67.61
1972	6,006	22	93.84	70.05
1973	6,175	19	95.98	73.26
1974	6,940	100	106.95	84.94
1975	7,186	422	106.85	67.88
1976	8,057	128	136.38	68.18
1977 3/ ...	8,696	-767	103.36	97.05
1978	7,619	387	129.06	108.42
1979	8,488	788	131.69	121.98
1980 5/ ...	8,633	598	163.91	125.70

1/ As of June 30.

2/ Year ended June 30.

3/ Gross operating revenue includes Federal subsidies of $1,843,000. Net loss reflects the utilization of operating reserves absorbing the excess of expenditures over receipts.

4/ Replacement cost estimate at $60,000/unit.

5/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii Housing Authority, records.

Table 483.-- HOUSING VACANCY SURVEYS OF OAHU: 1977 TO 1981

[Sponsored by the Federal Home Loan Bank and conducted by U.S. mail carriers.]

Date of survey and type of unit	All deliveries 1/	Vacant 1/		New units and units under construction 2/		
		Number	Percent	Total	New	Under construction
APRIL 1977 3/						
All deliveries	213,850	3,399	1.6	4,301	2,073	2,228
Single-family residences	113,937	488	0.4	564	155	409
Apartments	99,913	2,911	2.9	3,737	1,918	1,819
Mobile homes	-	-	...	-	-	-
MARCH 1978						
All deliveries	224,237	3,312	1.5	6,686	1,866	4,820
Single-family residences	117,767	709	0.6	2,063	452	1,611
Apartments	106,467	2,603	2.4	4,623	1,414	3,209
Mobile homes	3	-	0	-	-	-
MAY 1979						
All deliveries	232,134	2,584	1.1	6,251	1,497	4,754
Single-family residences	116,300	376	0.3	1,714	330	1,384
Apartments	115,766	2,208	1.9	4,537	1,167	3,370
Live aboard boats	66	-	0	-	-	-
Mobile homes	2	-	0	-	-	-
MARCH 1980						
All deliveries	234,963	3,039	1.3	6,045	2,065	3,980
Single-family residences	116,079	552	0.5	1,952	490	1,462
Apartments	119,817	2,487	2.1	4,093	1,575	2,518
Live-aboard boats	65	-	0	-	-	-
Mobile homes	2	-	0	-	-	-

Continued on next page.

Table 483.-- HOUSING VACANCY SURVEYS OF OAHU: 1977 TO 1981 -- Con.

Date of survey and type of unit	All deliveries 1/	Vacant 1/		New units and units under construction 2/		
		Number	Percent	Total	New	Under construction
MARCH 1981						
All deliveries	238,425	3,306	1.4	4,329	1,929	2,400
Single-family residences	122,184	577	0.5	1,042	305	737
Apartments	116,201	2,729	2.4	3,287	1,624	1,663
Mobile homes and live-aboard boats	40	-	0	-	-	-

1/ Excludes new units, completed but as yet unoccupied.
2/ As yet unoccupied.
3/ Dated March 1977 in the original report but April 1977 thereafter.
Source: Federal Home Loan Bank of Seattle, Honolulu Housing Vacancy Survey (annual).

Table 484.-- OCCUPANCY OF HOUSING UNITS, BY COUNTIES: 1970 AND 1980

[As of April 1.]

County	All housing units		Occupied by residents		Occ. by non-residents or vacant	
	1970	1980	1970	1980	1970	1980
State total ..	216,538	334,235	203,088	294,051	13,450	40,184
Hawaii	18,972	34,215	17,260	29,237	1,712	4,978
Honolulu	174,623	252,038	164,763	230,213	9,860	21,825
Kalawao	-	121	-	71	-	50
Kauai	9,021	14,828	8,282	12,020	739	2,808
Maui	13,922	33,033	12,783	22,510	1,139	10,523

Source: 1980 Census of Population and Housing, PHC80-V-13 (March 1981), table 1, as corrected August 20, 1981; 1980 Census of Population, PC80-S1-2 (May 1981), p. 8; U.S. Census of Population: 1970, PC(1)-B13 (May 1971), table 16.

Table 485.-- VACANCY RATES FOR HOUSING ON OAHU AND THE NEIGHBOR ISLANDS: QUARTERLY, 1970 TO 1981

[Percent vacant, based on housing units sampled for the Hawaii Health Surveillance Program survey. Units occupied by households temporarily absent were classified as occupied. The base excludes units occupied by transients.]

Year	Oahu 1/				Other islands 2/			
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.
1970 ..	4.0	3.4	2.7	3.9	...	2.1	4.1	2.5
1971 ..	4.6	3.2	2.2	2.4	3.6	4.6	6.4	5.9
1972 ..	3.8	4.2	3.5	2.4	4.8	6.5	4.7	6.0
1973 ..	2.7	2.6	2.4	2.9	4.4	5.0	4.7	6.0
1974 ..	4.4	4.2	4.7	2.2	6.5	3.9	3.6	4.7
1975 ..	3.0	5.0	8.2	5.8	6.7	7.0	8.2	5.8
1976 3/	...	...	4.7	5.4	...	...	5.5	5.7
1977 ..	5.3	5.9	6.5	6.5	6.4	5.3	6.9	2.8
1978 ..	4.3	2.8	3.6	4.2	6.7	4.1	3.9	3.7
1979 ..	2.7	3.0	2.3	3.1	4.0	6.0	2.8	3.9
1980 ..	2.6	4.8	4.3	3.8	2.8	5.4	5.5	5.6
1981 ..	3.0	5.4			5.7	5.7		

1/ Based on quarterly samples of 592 to 1,731 units before 1978 and 745 to 1,081 units in 1978-1981.

2/ Based on quarterly samples of 274 to 1,055 units before 1978 and 505 to 1,027 units in 1978-1981. Data are unavailable for the first quarter of 1970.

3/ Survey suspended during the first half of 1976.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 486.-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS AND COUNTIES: 1980

[Based on place of residence one year prior to survey date.]

Island and military status of household head 1/	All household heads	Non-movers	Movers		Mobility not reported
			Number	Percent 2/	
State total	287,009	243,663	40,654	14.3	2,692
Military	27,836	16,565	11,187	40.3	84
Civilian	258,833	227,098	29,370	11.5	2,365
Status not reported	340	-	96	100.0	243
Oahu	223,674	189,134	32,576	14.7	1,964
Military	27,785	16,565	11,136	40.2	84
Civilian	195,600	172,569	21,343	11.0	1,688
Status not reported	289	-	96	100.0	193
Other islands	63,334	54,529	8,077	12.9	728
Hawaii	29,382	25,488	3,410	11.8	484
Kauai	11,440	10,449	955	8.4	36
Maui, Molokai, and Lanai	22,512	18,592	3,712	16.6	208

1/ Military status of household head at the time of the survey.
2/ Based on number reporting.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 487.-- PRICE GROUP OF NEW SALES HOUSING COMPLETED, BY TYPE OF STRUCTURE AND LAND OWNERSHIP, FOR OAHU: 1977 AND 1978

[Survey includes only subdivisions or projects with five or more completions during the year.]

Year completed, type of structure, and land ownership	All price groups	Under $50,000	$50,000 to $69,999	$70,000 to $99,999	$100,000 and over	Median price (dollars)
1977						
All units	2,915	409	1,033	1,260	213	70,369
1-family detached:						
Fee simple	669	-	36	564	69	85,878
Leasehold	291	93	10	156	32	78,173
1-family attached:						
Fee simple	69	-	-	69	-	85,000
Leasehold	-	-	-	-	-	(X)
Condo fee simple ..	133	-	73	59	1	68,750
Condo leasehold ...	216	9	119	31	57	64,595
Multi-family:						
Condo fee simple ..	342	178	164	-	-	48,833
Condo leasehold ...	1,195	129	631	381	54	67,093
1978						
All units	2,274	108	500	1,083	583	84,654
1-family detached:						
Fee simple	681	-	-	511	170	89,990
Leasehold	246	-	6	99	141	100,000
1-family attached:						
Fee simple	247	-	6	221	20	85,950
Leasehold	12	-	9	3	-	66,667
Condo fee simple ..	177	41	87	49	-	59,500
Condo leasehold ...	66	10	56	-	-	57,667
Multi-family:						
Condo fee simple ..	-	-	-	-	-	(X)
Condo leasehold ...	845	57	336	200	252	74,425

Footnotes and source follow next table.

Table 488.-- SALES STATUS OF NEW SALES HOUSING COMPLETED, BY PRICE GROUP AND TYPE OF STRUCTURE, FOR OAHU: 1977 AND 1978

[Survey includes only subdivisions or projects with five or more completions during the year.]

Year completed and price group or type of structure	Units completed during year	Sold before const. started	Speculative units		
			Sold by Dec. 31	Unsold by Dec. 31	
				Number	Percent 1/
1977					
All units	2,915	612	1,680	623	27.1
Price group:					
Under $50,000	409	107	293	9	4.9
$50,000 to $59,999	351	23	169	159	48.5
$60,000 to $69,999	682	25	525	132	20.1
$70,000 to $99,999	1,260	318	640	302	32.1
$100,000 and over	213	139	53	21	28.4
Median (dollars)	70,369	84,245	67,200	71,142	(X)
Type of structure:					
1-family detached	960	456	443	61	12.1
1-family attached	418	102	244	72	22.8
Multi-family	1,537	54	993	490	33.0
1978					
All units	2,274	1,649	563	62	9.9
Price group:					
Under $50,000	108	92	16	-	0
$50,000 to $59,999	328	171	150	7	4.5
$60,000 to $69,999	172	93	59	20	25.3
$70,000 to $99,999	1,083	875	203	5	2.4
$100,000 and over	583	418	135	30	18.2
Median (dollars)	84,654	86,063	78,350	94,000	(X)
Type of structure:					
1-family detached	927	831	85	11	11.5
1-family attached	502	343	134	25	15.7
Multi-family	845	475	344	26	7.0

X Not applicable.

1/ Of speculative units.

Source: U.S. Department of Housing and Urban Development, Honolulu Area Office, "HUD Survey of Unsold New Houses" (unpublished tables).

Table 489.-- AVERAGE SALES PRICES OF SINGLE-FAMILY HOUSES: 1961 TO 1976

[In dollars. Data limited to single-family nonfarm houses included in measurable sales during six-month periods in each surveyed year.]

Year	New houses	Previously occupied houses
1961	24,096	24,662
1966	29,485	29,530
1971	43,503	48,660
1976 1/	61,928	78,409

1/ The Hawaii average exceeded the U.S. average by 38.3 percent for new houses (where Hawaii ranked second among the 50 States and D.C.) and 126.6 percent for used houses (where Hawaii ranked first).

Source: U.S. Bureau of the Census, 1977 Census of Governments, Vol. 2, Taxable Property Values and Assessment/Sales Price Ratios, GC77(2), November 1978, table 11, p. 87, and earlier Census of Government findings cited in the Honolulu Department of Housing and Community Development, Housing and Community Development Research, No. 35, July 1975, p. 27.

Table 490.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR OAHU: 1957 TO 1980-1981

[Data include 1-family and condominium properties for all years and cooperative, income, and vacant properties through 1977.]

Year	Number listed	Sold		
		Number	Percent	Average selling price (dollars)
1957	1,805	924	51.2	19,694
1958	2,064	936	45.3	21,365
1959	1,666	967	58.0	23,560
1960	1,868	795	42.6	27,808
1961	1,847	541	29.3	29,144
1962	1,522	515	33.8	29,332
1963	1,743	624	35.8	30,323
1964	1,934	882	45.6	32,951
1965	1,854	910	49.1	35,727
1966	2,137	813	38.0	35,652
1967	2,124	963	45.3	38,810
1968	2,375	1,133	47.7	42,546
1969	2,606	1,422	54.6	46,333
1970	3,415	1,693	49.6	44,755
1971	4,165	2,157	51.8	58,651
1972	6,022	4,555	75.6	60,810
1973	7,845	5,348	68.2	70,769
1974	10,933	4,821	44.1	70,918
1975	11,271	4,174	37.0	71,485
1976	10,627	4,311	40.6	75,483
1977	10,597	5,523	52.1	81,213
1978-1979 1/	9,926	5,714	57.6	82,076
1979-1980 1/	13,506	8,009	59.3	103,698
1980-1981 1/	14,090	5,553	39.4	124,897

1/ Year ended February 28 or 29.
Source: Honolulu Board of Realtors, records.

Table 491.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES OF RESIDENTIAL AND CONDOMINIUM UNITS, FOR OAHU: 1972 TO 1980-1981

Year	Number of units listed		Number of units sold	
	Residential	Condominium	Residential	Condominium
1972	3,472	2,080	2,891	1,306
1973	4,148	3,185	2,699	2,379
1974	4,826	4,912	2,246	2,302
1975	4,821	5,323	2,265	1,715
1976	4,791	4,903	2,472	1,650
1977	4,452	5,422	2,985	2,285
1978-1979 1/ ...	3,522	6,404	2,139	3,575
1979-1980 1/ ...	4,105	9,401	2,253	5,756
1980-1981 1/ ...	4,352	9,738	1,820	3,733

Year	Percent of listed units sold		Average selling price (dollars)	
	Residential	Condominium	Residential	Condominium
1972	83.3	62.8	65,723	43,869
1973	65.1	74.7	85,914	46,811
1974	46.5	46.9	83,611	54,956
1975	47.0	32.2	83,797	55,596
1976	51.6	33.7	85,691	59,842
1977	67.0	42.1	94,028	61,484
1978-1979 1/ ...	60.7	55.8	114,264	67,783
1979-1980 1/ ...	54.9	61.2	151,775	84,880
1980-1981 1/ ...	41.8	38.3	169,107	103,342

1/ Year ended February 28 or 29.

Source: Honolulu Board of Realtors, records.

Table 492.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE OF PROPERTY, FOR OAHU: 1980-1981

[Year ended February 28, 1981.]

Type of property	Number of units listed	Units sold		Selling price of units sold	
		Number	Percent	Total ($1,000)	Per unit (dollars)
All categories	14,090	5,553	39.4	693,552	124,897
Single-family residential	4,352	1,820	41.8	307,775	169,107
1 and 2 bedrooms	308	130	42.2	21,080	162,157
3 bedrooms	2,373	1,073	45.2	162,751	151,678
4 or more bedrooms	1,671	617	36.9	123,944	200,882
Condominiums	9,738	3,733	38.3	385,777	103,342
1 and 2 bedrooms	7,742	2,825	36.5	278,409	98,552
3 bedrooms	1,742	786	45.1	92,475	117,653
4 or more bedrooms	254	122	48.0	14,893	122,076

Source: Honolulu Board of Realtors, records.

Table 493.-- OFFICE BUILDING OCCUPANCY, FOR HONOLULU: QUARTERLY, 1980 AND 1981

[Most of the office buildings surveyed are in the Honolulu central business district, but a few are at other locations in Honolulu.]

Year and quarter	Number of buildings surveyed	Floor area		
		Total (sq. ft.)	Occupied	
			Amount (sq. ft.)	Percent
1980: First	40	5,179,022	5,002,473	96.6
Second	37	4,802,857	4,699,744	97.9
Third 1/ ...	...	...	...	...
Fourth	28	4,256,085	4,196,840	98.6
1981: First	33	4,212,745	4,157,592	98.7

1/ No survey taken.

Source: Building Owners and Managers Association Hawaii, Newsletter for May and August 1980 and April 1981.

Table 494.-- AVERAGE BASE RENT AND VACANCY RATE, FOR HONOLULU OFFICE BUILDINGS: 1979 TO 1981

[As of June.]

Year	Average base rent (dollars per sq. ft. per year)		Vacancy rate (percent)
	New buildings	Old buildings	
1979	10.80	9.00	2.0
1980	12.00	10.00	1.5
1981	17.40	13.20	0.4

Source: Howard Ecker and Co., Chicago, "Office Building Boom Intensifies in Honolulu and Other Cities Amidst Early Signs of Weakening Market," release dated May 26, 1981, reporting results of 10th semi-annual Ecker Survey.

Table 495.-- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1971 TO 1981

Year ended June 30	Number of deeds filed and recorded	Approximate value of land conveyed (dollars) 1/
1971	16,036	969,486,762
1972	20,354	1,211,269,225
1973	21,874	1,736,756,401
1974	21,435	2,076,149,450
1975	17,892	1,308,805,819
1976	20,072	915,195,342
1977	22,618	1,771,313,731
1978	24,902	1,306,408,450
1979	28,586	3,709,276,737
1980	28,996	4,529,726,150
1981	23,213	3,960,013,179

1/ Data include leases, agreement of sales assignments; subleases, etc., as well as deeds.

Source: Hawaii State Department of Land and Natural Resources, Annual Report (annual); Bureau of Conveyances, records.

Table 496.-- APPROXIMATE VALUE OF LAND TRANSFERS, BY COUNTIES: 1978 TO 1980

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds.]

County	1978 1/	1979	1980
State total	3,050,870,755	2,922,813,108	3,857,161,012
Honolulu	2,017,774,081	2,015,789,173	2,518,584,243
Maui	581,484,897	339,399,214	549,819,017
Hawaii	288,886,508	375,149,523	487,446,102
Kauai	162,725,269	192,475,198	301,311,650

1/ For earlier years, see the Honolulu Department of Housing and Community Development, Housing and Community Development Research, No. 39, July 1979, p. 26.

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 497.-- MORTGAGES, FORECLOSURES, AND AGREEMENTS OF SALE: 1975 TO 1980

[For data for earlier years, 1961-1974, see the source.]

Year	Mortgages recorded			Foreclosures 1/ ($1,000)	Mortgage assignments ($1,000)	Agreements of sale ($1,000)
	Number	Total value ($1,000)	Average value (dollars)			
1975 ...	22,031	1,548,130	70,270	6,854	5,366	(NA)
1976 ...	24,799	1,674,255	67,513	676	4,091	357,147
1977 ...	27,799	2,166,606	77,938	8,470	2,696	411,525
1978 ...	31,070	2,504,979	80,624	8,392	3,074	611,732
1979 ...	38,309	3,201,376	83,567	335	3,918	1,133,166
1980 ...	27,551	3,034,349	110,135	767	6,246	1,140,453

1/ Commercial and residential projects.

Source: Data from Title Guaranty of Hawaii and State Bureau of Conveyances, cited in the Bank of Hawaii, Construction in Hawaii, 1981 (June 1981), p. 30.

Table 498.-- REAL ESTATE MORTGAGE LOANS OUTSTANDING, BY TYPE OF LENDING INSTITUTION: 1970 TO 1980

[In thousands of dollars. As of December 31.]

Year	All institutions	Banks	Savings, building and loan associations	Trust companies 1/	Industrial loan companies	Insurance companies
1970	1,790,220	469,483	678,688	4,760	37,587	599,702
1971	2,093,033	496,899	854,183	5,156	63,852	672,944
1972	2,424,166	570,525	1,061,068	2,199	90,733	699,641
1973	2,797,345	662,989	1,231,323	984	194,758	707,292
1974	3,210,216	751,142	1,344,025	593	291,566	822,890
1975	3,564,867	816,412	1,547,871	479	318,305	881,800
1976	3,959,529	883,500	1,841,239	2,307	284,856	947,627
1977	4,495,971	992,773	2,229,623	1,241	292,066	980,268
1978	5,320,761	1,150,080	2,762,269	1,913	330,902	1,075,597
1979	6,323,194	1,399,782	3,256,232	466	406,753	1,259,961
1980	(NA)	1,493,470	3,708,523	766	502,964	(NA)

NA Not available.

1/ Excluding mortgage loans held in trust and agency accounts.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division and Insurance Division.

Table 499.-- CHARACTERISTICS OF HOMES INSURED UNDER FHA SECTIONS 203 AND 245: 1979 AND 1980

Subject	Proposed homes		Existing homes	
	Sec. 203	Sec. 245 1/	Sec. 203	Sec. 245 1/
1979				
Volume of FHA-insured mortgages:				
Number	37	66	286	150
Amount ($1,000)	2,431	4,621	18,229	11,421
Average:				
Sample size	16	22	111	66
Property value	(S)	(S)	$78,447	$82,152
Market price of site	(S)	(S)	$35,115	$37,098
Percent of value	(S)	(S)	43.7	44.6
Improved living area 2/ (square feet)	(S)	(S)	1,176	1,177
Age of structure 3/ (years)	...	...	7.7	7.5
Price of site per square foot	(S)	(S)	$5.20	$5.26
Lot size (square feet)	(S)	(S)	7,530	8,146
Mortgagor's total annual income 3/	(S)	(S)	$27,825	$22,866
Monthly cost of heating and utilities	(S)	(S)	$49.17	$48.30
Sale price per square foot 2/	(S)	(S)	$63.65	$67.76
1980				
Volume of FHA-insured mortgages:				
Number	117	225	285	211
Amount ($1,000)	8,815	17,518	19,771	16,821
Average:				
Sample size	13	32	124	120
Property value	(S)	$91,029	$100,303	$95,679
Market price of site	(S)	$41,671	$49,141	$43,804
Percent of value	(S)	44.4	46.3	44.7
Improved living area 2/ (square feet)	(S)	1,117	1,145	1,123
Age of structure 3/ (years)	...	...	12.7	8.0
Price of site per square foot	(S)	$6.99	$6.67	$6.52
Lot size (square feet)	(S)	8,247	8,900	7,795
Mortgagor's total annual income 3/	(S)	$24,666	$32,181	$26,333
Monthly cost of heating and utilities	(S)	$51.80	$60.25	$58.73
Sale price per square foot 2/	(S)	$70.97	$67.43	$75.83
Construction cost per square foot	(S)	$47.04	...	...

(S) Sample too small for reliable estimate.

1/ Graduated payment mortgage program.

2/ Data based on 1-story structures.

3/ Median rather than arithmetic mean.

Source: U.S. Department of Housing and Urban Development, FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 203 (annual) and FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 245, Graduated Payment Mortgage Program (annual).

Table 500.-- CHANGES IN THE NUMBER OF ELEVATORS: 1977 TO 1980

Year	Added	Removed	In operation, December 31
1977	119	6	2,881
1978	121	7	2,995
1979	183	14	3,164
1980	204	7	3,361

Source follows next table.

Table 501.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: 1970 TO 1980

[As of December 31.]

Facility	State totals			Geographic area: 1980	
				Hawaii County	
	1970	1979	1980	Hilo	Kona
Total 1/	1,649	3,164	3,361	106	70
Elevators	1,357	2,689	2,846	81	67
Under 9 stories	762	1,454	1,554	72	67
Hydro	190	476	522	26	21
Roped	572	978	1,032	46	46
9 to 18 stories	423	770	800	9	-
19 to 28 stories	125	284	299	-	-
29 to 38 stories	47	139	148	-	-
38 stories or more	-	42	45	-	-
Escalators and moving walks	94	211	228	6	-
Inclined lifts	4	9	9	3	1
Man lifts	14	10	10	-	-
Dumbwaiters	158	243	253	16	2
Other facilities	2	2	4	-	-
Workmen's hoists 1/	20	7	11	-	-
Buildings with facilities 1/	(NA)	1,485	1,566	64	35

Continued on next page.

Table 501.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: 1970 TO 1980 -- Con.

Facility	Geographic area: 1980 -- Con.				
	Maui County			Oahu	Kauai County
	Maui	Lanai	Molokai		
Total 1/	270	1	1	2,848	65
Elevators	245	1	-	2,394	58
Under 9 stories	197	1	-	1,167	50
Hydro	85	1	-	366	23
Roped	112	-	-	801	27
9 to 18 stories	43	-	-	740	8
19 to 28 stories	5	-	-	294	-
29 to 38 stories	-	-	-	148	-
38 stories or more	-	-	-	45	-
Escalators and moving walks	1	-	-	221	-
Inclined lifts	2	-	-	2	1
Man lifts	-	-	-	10	-
Dumbwaiters	18	-	1	210	6
Other facilities	2	-	-	2	-
Workmen's hoists 1/	2	-	-	9	-
Buildings with facilities 1/	123	1	1	1,313	29

1/ Workmen's hoists not included in totals.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 502.-- TALLEST STRUCTURES ON OAHU: JANUARY 1981

Category and name or structure	Address	Year built	Height 1/	
			Stories	Feet
Apartment houses:				
Regency Tower II	98-288 Kaonohi St. ...	1979	43	350
Discovery Bay	1778 Ala Moana	1976	42	350
Regency Tower	2525 Date St.	1974	42	350
Century Center	1750 Kalakaua Ave. ...	1978	41	350
Yacht Harbor Towers	1600 Ala Moana	1972	40	350
Contessa	2825 So. King St.	1971	37	348
Hotels:				
Ala Moana Hotel 2/	410 Atkinson Drive ...	1970	38	396
Ala Wai Sunset	445 Seaside Ave.	1979	44	350
Pacific Beach Hotel.......	155 Liliuokalani Ave..	1979	43	350
Waikiki Ala Wai Waterfront	444 Niu St.	1979	43	350
Waikiki Lodge II	343 Hobron Lane	1979	43	350
Hyatt Regency Hotel	2424 Kalakaua Ave. ...	1976	39	350
Office buildings:				
Pacific Trade Center	1058 Alakea St.	1972	30	350
Grosvenor Center	735 Bishop St.	1979	30	350
Ala Moana Bldg.	1441 Kapiolani Blvd. .	1960	25	300
Aloha Tower	Pier 9, foot of Fort Street	1926	10	184
Towers:				
VLF Antenna 3/	Lualualei	1972	...	1,503
KGMB-TV	1534 Kapiolani Blvd. .	c. 1966	...	436
Dole water tower	Iwilei	1927	...	199
Other structures:				
Tripler Army Hospital	Moanalua	1948	14	189
Central Union Church	1660 So. Beretania St.	1924	...	160

1/ For structures authorized since adoption of 350-feet height limit in 1969, data may exclude the elevator machine room.

2/ Measured to the top of the elevator machine room.

3/ VLF Antenna of the Radio Transmitting Facility, Lualualei, of the Naval Communications Station, Honolulu. Two towers, each 1,503 feet, completed in August 1972.

Source: City and County of Honolulu, Building Department, records.

Table 503.-- TALLEST STRUCTURES ON THE NEIGHBOR ISLANDS: JANUARY 1981

Kind of structure, island, and name	Address	Year completed	Height	
			Stories	Feet
APARTMENT HOUSE				
Hawaii:				
Bayshore Towers	Hilo	1970	15	135
Kauai:				
Kapaa Shores	Kapaa	1974	4	48
Poipu Shores	Koloa	1975	4	48
Maui:				
Mana Kai Apartment	Kihei	1973	8	92
HOTEL				
Hawaii:				
Naniloa Surf	Hilo	1966	12	131
Kauai:				
Kauai Surf Hotel	Lihue	1974	10	107
Sheraton Kauai Hotel	Koloa	(UC)	4	48
Maui:				
Royal Lahaina Hotel	Kaanapali	1970	12	132
The Whaler Hotel	Kaanapali	1975	12	110
Hyatt Regency Hotel	Kaanapali	1980	9	110
OFFICE BUILDING				
Hawaii:				
Hawaiian Telephone	Hilo	1970	4	62
Kauai:				
State Building	Lihue	1968	4	45
Maui:				
Kalana O Maui (County Bldg.)	Wailuku	1972	9	140
Wailuku Sugar Co.	Wailuku	1906	5	100

Continued on next page.

Table 503.-- TALLEST STRUCTURES ON THE NEIGHBOR ISLANDS: JANUARY 1981 -- Con.

Kind of structure, island, and name	Address	Year completed	Height	
			Stories	Feet
TOWER				
Hawaii:				
Coast Guard Loran Station	Upolu Point ..	1958	...	625
Kauai:				
Communication Engineers Tower .	Mana	1964	...	400
Maui:				
KMVI Radio Tower	Wailuku	1947	...	455
KNUI Radio Tower	Kihei	1969	...	280
Molokai:				
KAIM Radio Tower	Kalua Koi	1981	...	410
OTHER STRUCTURES				
Hawaii:				
Puna Sugar Power Plant	Keaau	1971	6	(NA)
Kauai:				
Wilcox Memorial Hospital	Lihue	1974	4	40
McBryde Sugar Co.	Koloa	1974	3	40
Maui:				
Pioneer Mill Co. smoke stack ..	Lahaina	1928	...	220
HC&S Co. smoke stack	Puunene	1900	...	107

NA Not available.

UC Under construction.

Source: Hawaii County Department of Research and Development, February 2, 1981; Kauai County Department of Public Works, April 2, 1981; Maui County Department of Public Works, April 27, 1981.

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning.

The number of manufacturing establishments in Hawaii increased from 672 in 1963 to 773 in 1972 and 946 in 1977. The value added by manufacture rose from $326 million in 1967 to $410 million in 1972, $791 million in 1977, and $783 million in 1978. Three-fourths of all manufacturing activity in the State in 1977 was on Oahu. Food processing -- mostly sugar and pineapple -- accounted for more than 44 percent of the value added by manufacture in that year. Between 1970 and 1980, the general excise and use tax base increased 201 percent for sugar processing, 71 percent for pineapple canning, and 119 percent for all other manufacturing. There were three pineapple canneries and 15 sugar mills in Hawaii in mid-1980, in each case about half as many as a dozen years earlier. The production of canned pineapple fruit and juices in 1980 amounted to 19 million actual cases, well below the levels of earlier years. Sugar production in 1980 amounted to 1.02 million short tons, about the same level as in other recent years. The value of sugar production (including commercial molasses) was $594 million, well below the record set in 1974 but still the second best year in Island history. Important manufactures other than food processing include apparel ($45.9 million in value added in 1978), printing and publishing ($97.9 million), and transportation equipment ($28.4 million).

Sources for data on this subject include the United States Census of Manufactures, most recently conducted for 1977, the Annual Survey of Manufactures, and publications of the Hawaii State Department of Agriculture and Department of Taxation, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Historical Statistics of Hawaii, Section 16, reviews the figures for earlier years. Statistics for the nation as a whole appear in Section 29 of the Statistical Abstract of the United States: 1980.

Table 504.--MANUFACTURES: 1963 TO 1978

Year	All employees: Number (1,000)	All employees: Payroll (millions of dollars)	Production workers: Number (1,000)	Production workers: Hours (millions)	Production workers: Wages (millions of dollars)
1963 ..	25.1	109.0	18.7	33.2	67.5
1964 ..	25.0	113.7	18.3	33.1	69.4
1965 ..	25.4	118.1	18.7	34.0	73.5
1966 ..	24.8	123.8	18.7	34.3	78.2
1967 ..	25.4	139.6	19.0	35.9	86.9
1968 ..	23.2	134.0	17.4	32.2	83.3
1969 ..	23.9	145.3	17.9	33.2	90.8
1970 ..	24.8	168.7	18.1	35.3	102.8
1971 ..	24.4	176.6	17.5	34.3	105.7
1972 ..	24.8	191.1	17.7	33.1	113.7
1973 ..	24.3	195.5	17.5	31.9	117.9
1974 ..	22.5	210.4	15.8	28.8	116.6
1975 ..	23.7	236.7	16.9	30.6	133.0
1976 ..	24.2	266.4	17.1	30.8	153.9
1977 ..	25.0	276.8	17.4	31.3	160.5
1978 ..	23.7	285.2	17.4	30.9	173.0

Year	Number of establishments	Value added by manufacture (millions of dollars)	Cost of materials 1/ (millions of dollars)	Value of shipments 1/ (millions of dollars)	New capital expenditures (millions of dollars)
1963 ..	672	261.1	(NA)	(NA)	15.4
1964 ..	(NA)	263.8	372.0	638.4	17.7
1965 ..	(NA)	292.1	365.9	655.5	17.2
1966 ..	(NA)	310.8	371.5	680.9	24.1
1967 ..	697	326.2	399.6	723.4	26.0
1968 ..	(NA)	353.9	381.9	737.1	15.6
1969 ..	(NA)	351.0	408.3	758.1	19.8
1970 ..	(NA)	408.6	451.1	856.9	40.5
1971 ..	(NA)	435.0	465.9	899.9	28.0
1972 ..	773	410.0	548.3	955.6	46.7
1973 ..	(NA)	496.1	592.9	1,086.4	36.6
1974 ..	(NA)	913.8	952.9	1,848.2	50.2
1975 ..	(NA)	685.4	1,116.2	1,800.3	51.5
1976 ..	(NA)	700.3	1,156.8	1,854.8	55.6
1977 ..	949	785.5	1,176.1	1,974.0	44.4
1978 ..	(NA)	782.9	1,284.8	2,063.1	46.0

NA Not available.

1/ Aggregate cost of materials and value of shipments figures for manufacturing industries include extensive duplication, since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Hawaii, MC77-A-12, October 1980, and advance data from 1978 Annual Survey of Manufactures, M78(AS)-6.

Table 505.-- MANUFACTURES, BY GEOGRAPHIC AREAS: 1977

Geographic area	All establishments 1/		All employees 1/		Value added by manufacture (million dollars)	Value of shipments 2/ (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)		
State total .	949	231	25.0	276.8	785.5	1,974.0
COUNTIES						
Honolulu	759	191	19.6	215.2	585.8	1,581.5
Others	190	40	5.4	61.6	199.7	392.5
Hawaii	99	16	2.4	30.4	83.1	157.7
Kauai	26	6	0.7	8.2	25.4	70.3
Maui	64	18	2.3	22.9	91.1	164.4
URBAN PLACES 3/						
Hilo	61	8	0.7	8.9	13.7	32.4
Honolulu	657	159	17.1	183.9	416.8	1,106.4
Kahului	17	6	(D)	(D)	(D)	(D)
Wailuku	23	6	0.5	4.8	8.8	17.3
Waipahu	13	5	0.7	7.0	7.9	33.2

(D) Withheld to avoid disclosing operations of individual companies.

1/ Including central administrative offices and auxiliaries.

2/ Aggregate value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others.

3/ With 450 manufacturing employees or more.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Hawaii, MC77-A-12 (October 1980), p. 12-4.

Table 506.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP AND INDUSTRY: 1977

SIC code	Industry	All establishments		All employees		Production workers	
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)
	All industries	949	231	25.0	276.8	17.4	31.3
20	Food and kindred products	220	63	10.9	112.9	8.1	14.9
202	Dairy products	11	5	0.5	7.5	0.2	0.4
203	Preserved fruits and vegetables .	38	6	3.6	28.0	3.2	5.4
205	Bakery products	24	7	0.8	9.8	0.4	0.8
206	Sugar and confectionery products	34	20	3.8	44.4	2.8	5.8
208	Beverages	17	6	0.5	7.1	0.2	0.4
23	Apparel and other textile products	157	55	3.8	25.1	3.2	5.3
24	Lumber and wood products	43	8	0.4	5.0	0.3	0.6
25	Furniture and fixtures	30	6	(D)	(D)	(D)	(D)
26	Paper and allied products	13	5	(D)	(D)	(D)	(D)
27	Printing and publishing	157	27	2.5	34.9	1.3	2.1
28	Chemicals and allied products	22	5	0.4	4.8	0.2	0.4
29	Petroleum and coal products	3	2	(D)	(D)	(D)	(D)
30	Rubber and plastics products	12	4	0.2	1.5	0.2	0.3
32	Stone, clay, glass products	53	16	(D)	(D)	(D)	(D)
34	Fabricated metal products	36	9	0.8	10.8	0.7	1.3
35	Machinery, exc. electrical	38	3	0.3	3.3	0.2	0.4
37	Transportation equipment	21	4	0.6	10.8	0.5	1.0
39	Misc. manufacturing industries	83	11	(D)	(D)	(D)	(D)
-	Admin. and auxiliary	24	9	1.4	22.9	-	-

Continued on next page.

Table 506.-- MANUFACTURES BY SELECTED INDUSTRY GROUP AND INDUSTRY: 1977 - Con.

SIC code	Industry	Production workers - con.	Value added by manu- facture (million dollars)	Cost of mate- rials 1/ (million dollars)	Value of ship ments 1/ (million dollars)	New capital expendi- tures 1/ (million dollars)
		Wages (million dollars)				
	All industries	160.5	785.5	1,176.1	1,974.0	44.4
20	Food and kindred products	73.2	350.5	450.6	800.7	25.9
202	Dairy products	3.0	20.3	41.1	61.4	1.2
203	Preserved fruits and vegetables	22.3	91.7	96.5	188.1	1.5
205	Bakery products	5.0	20.6	13.3	33.8	0.6
206	Sugar and confectionery products	31.1	159.8	165.4	325.2	18.3
208	Beverages	2.4	21.1	30.6	51.4	2.1
23	Apparel and other textile products	16.7	44.9	33.5	78.0	0.6
24	Lumber and wood products	3.6	9.9	9.9	20.0	0.5
25	Furniture and fixtures	(D)	(D)	(D)	(D)	(D)
26	Paper and allied products	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing	16.8	94.5	29.9	124.3	1.6
28	Chemicals and allied products	2.2	17.2	30.8	48.5	1.3
29	Petroleum and coal products	(D)	(D)	(D)	(D)	(D)
30	Rubber and plastic products	1.1	2.7	3.8	6.5	0.3
32	Stone, clay, glass products	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products	8.2	22.8	52.9	77.0	3.4
35	Machinery, exc. electrical	2.2	5.8	3.4	9.0	0.5
37	Transportation equipment	9.3	17.0	13.3	30.2	(D)
39	Misc. manufacturing industries	(D)	(D)	(D)	(D)	(D)
-	Admin. and auxiliary	-	-	-	-	-

(D) Withheld to avoid disclosing operations of individual companies.

1/ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Hawaii, MC77-A-12 (October 1980), table 5.

Table 507.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1978

SIC code	Industry	All employees		Production workers		
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)
	All industries	23.7	285.2	17.4	30.9	173.0
20	Food and kindred products .	10.8	120.7	8.3	14.9	78.5
2033	Canned fruits and veg. ..	3.5	28.9	3.1	5.1	23.3
206	Sugar, confect. products	3.7	46.9	2.8	6.0	33.2
2061	Raw cane sugar	3.2	41.6	2.3	5.2	29.8
23	Apparel, textile products .	3.3	24.4	2.9	5.2	18.4
27	Printing and publishing ...	2.5	37.1	1.3	2.3	18.8
28	Chemicals, allied products	.4	5.2	.2	.3	2.1
34	Fabricated metal products .	.4	5.8	.2	.6	3.7
35	Machinery, except electric	.3	2.7	.2	.6	1.8
37	Transportation equipment ..	.7	13.3	.7	.6	11.1
--	Administrative, auxiliary .	.6	16.2	-	-	

SIC code	Industry	Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
	All industries	782.9	1,284.8	2,063.1	46.0	183.9
20	Food and kindred products .	371.2	495.3	865.3	27.7	77.8
2033	Canned fruits and veg. ..	81.3	101.6	182.9	2.9	34.4
206	Sugar, confect. products	176.7	181.0	357.8	17.8	21.4
2061	Raw cane sugar	129.6	155.1	284.7	17.1	12.1
23	Apparel, textile products .	45.9	33.1	78.8	.7	13.8
27	Printing and publishing ...	97.9	37.8	135.1	2.4	6.5
28	Chemicals, allied products	21.7	32.8	52.0	1.6	10.1
34	Fabricated metal products .	(Z)	40.3	41.1	.3	10.9
35	Machinery, except electric	3.6	3.4	6.6	.7	1.6
37	Transportation equipment ..	28.4	20.7	49.0	(D)	2.0
--	Administrative, auxiliary .	-	-	-	-	-

(D) Withheld to avoid disclosing information for individual companies.
Source: U.S. Bureau of the Census, advance data from 1978 Annual Survey of Manufactures area report M78(AS)-6, supplied July 20, 1981.

Table 508.-- MANUFACTURES: 1972 AND 1977

Item	Unit of measure	1977	1972
All establishments 1/	number	949	770
With 1 to 19 employees	do	718	534
With 20 to 99 employees	do	182	190
With 100 employees or more	do	49	46
All employees, average for year 1/	1,000	25.0	24.8
Payroll for year, all employees 1/	mil. dollars	276.8	191.1
Production workers:			
Average for year	1,000	17.4	17.7
March	do	15.8	15.8
May	do	17.1	18.2
August	do	20.7	22.0
November	do	15.8	14.8
Hours	millions	31.3	33.1
January to March	do	7.0	7.1
April to June	do	8.1	9.1
July to September	do	9.3	9.9
October to December	do	6.9	7.0
Wages	mil. dollars	160.5	113.7
Cost of materials, etc. 2/	do	1,176.1	548.3
Materials, parts, containers, etc., consumed	do	1,023.6	485.9
Resales	do	88.6	42.7
Fuels consumed	do	17.6	6.4
Purchased electric energy	do	15.2	6.0
Contract work	do	31.0	7.3
Value of shipments, including resales 2/	do	1,974.0	955.6
Value of resales	do	114.0	51.1
Value added by manufacture	do	785.5	410.0
Manufacturers' inventories:			
Beginning of year	do	205.2	106.0
Finished products	do	81.2	43.6
Work in process	do	31.0	12.4
Materials, supplies, fuel, etc.	do	93.0	50.1
End of year	do	189.1	104.7
Finished products	do	78.7	43.9
Work in process	do	25.9	14.0
Materials, supplies, fuel, etc.	do	84.5	46.8

Continued on next page.

Table 508.-- MANUFACTURES: 1972 AND 1977 -- Con.

Item	Unit of measure	1977	1972
Capital expenditures for plant and equipment .	mil. dollars	48.0	49.7
New capital expenditures	do	44.4	46.7
New buildings and other structures	do	9.3	19.8
New machinery and equipment	do	35.1	26.9
Used capital expenditures	do	3.6	3.0

1/ Including central administrative offices and auxiliaries.

2/ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Hawaii, MC77-A-12 (October 1980), table 3a.

Table 509.-- DEPRECIABLE ASSETS AND SELECTED COSTS OF MANUFACTURES: 1977

Item	Amount 1/ (million dollars)
Gross value of depreciable assets:	
Total:	
Beginning of year	699.0
New capital expenditures	54.6
Used capital expenditures	(4.8)
Retirements	14.3
End of year	744.1
Buildings and other structures:	
Beginning of year	235.7
New capital expenditures	(9.8)
Used capital expenditures	(.8)
Retirements	3.1
End of year	243.2
Machinery and equipment:	
Beginning of year	463.3
New capital expenditures	(44.9)
Automobiles, trucks, etc., for highway use	2.6
Computers and peripheral data processing equip.	5.1
All other	33.1
New machinery and equipment, n.s.k.	4.1
Used capital expenditures	(4.0)
Retirements	11.2
End of year	501.0
Rental payments:	
Total	(20.7)
Buildings and other structures	(8.3)
Machinery and equipment	(12.4)
Depreciation charges during 1977:	
Total	39.5
Buildings and other structures	9.5
Machinery and equipment	30.0
Supplemental labor costs:	
Total	49.6
Legal costs	23.6
Voluntary costs	26.0

Continued on next page.

Table 509.-- DEPRECIABLE ASSETS AND SELECTED COSTS OF MANUFACTURES: 1977 -- Con.

Item	Amount 1/ (million dollars)
Purchased services:	
Cost of purchased services for the repair of--	
Buildings and other structures	(.9)
Response coverage ratio (percent)	60
Machinery	(5.4)
Response coverage ratio (percent)	59
Cost of purchased communication services	(1.0)
Response coverage ratio (percent)	62

n.s.k. Not specified by kind.

1/ Figures in parentheses have standard errors of 15 percent or more.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Hawaii, MC77-A-12 (October 1980), table 3b.

Table 510.-- INDUSTRIAL PARKS AND AREAS, BY ISLANDS: 1980

Island	Number of industrial parks and areas	Acres	
		Total	Developed
State total	35	3,218.9	3,065.7
Hawaii	6	633.3	633.3
Maui	5	193.5	169.7
Lanai	-	-	-
Molokai	-	-	-
Oahu	21	2,330.1	2,242.7
Kauai	3	62.0	20.0
Niihau	-	-	-

Source: Hawaii State Department of Planning and Economic Development, Industrial Parks and Areas in Hawaii 1980.

Table 511.-- GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING, AND MANUFACTURING: 1970 TO 1980

[In thousands of dollars.]

Year reported 1/	Total	Sugar processing	Pineapple canning	Manufacturing 2/
1970	575,222	175,337	114,634	285,251
1971	599,686	190,209	124,548	284,929
1972	638,059	205,962	124,265	307,833
1973	692,715	213,095	123,597	356,023
1974	934,613	454,660	103,686	376,268
1975	1,166,923	605,521	131,655	429,748
1976	783,751	275,078	95,488	413,186
1977 3/ ...	862,412	284,000	111,942	466,470
1978 3/ ...	917,163	291,000	131,665	494,498
1979	1,035,159	305,738	164,200	565,221
1980	1,349,360	527,379	195,977	626,004

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended June 30.

2/ Excludes sugar processing, pineapple canning, and petroleum refining.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 512.-- PINEAPPLE CANNERIES, BY ISLANDS: 1970 TO 1980

[As of the end of the canning season.]

Year	State total	Maui	Oahu	Kauai
1970	4	1	2	1
1971	4	1	2	1
1972	4	1	2	1
1973	3	1	2	-
1974	3	1	2	-
1975	3	1	2	-
1976	3	1	2	-
1977	3	1	2	-
1978	3	1	2	-
1979	3	1	2	-
1980	3	1	2	-

Source: The Pineapple Growers Association of Hawaii, records; First Hawaiian Bank, Research Division, records.

Table 513.-- EMPLOYMENT AND EARNINGS IN THE PINEAPPLE INDUSTRY: 1970 TO 1980

[Includes field and cannery employment and earnings.]

Year	Full-time equivalent employment	Total wages and salaries (dollars)	Earnings per full-time equivalent employee (dollars)
1970 ...	7,779	52,580,858	6,759
1971 ...	7,403	51,194,731	6,915
1972 ...	7,110	48,376,978	6,804
1973 ...	5,759	42,613,741	7,400
1974 ...	4,894	37,764,230	7,716
1975 ...	4,915	42,137,633	8,573
1976 ...	4,657	44,918,405	9,645
1977 ...	4,924	52,413,689	10,645
1978 ...	4,953	55,397,760	11,185
1979 ...	4,979	61,751,124	12,402
1980 ...	4,861	66,737,788	13,729

Source: Hawaii Employers Council, unpublished estimates.

Table 514.-- HAWAIIAN PINEAPPLE PRODUCTION: 1970-71 TO 1980

[Hawaiian pack only; excludes overseas production by Hawaiian companies.]

Year 1/	Canned fruit		Canned juice		Frozen concentrate	
	1,000 actual cases	1,000 standard cases 2/	1,000 actual cases	1,000 standard cases 3/	1,000 equivalent 6/10 cases	1,000 standard cases 3/
1970-1971	17,718	12,028	10,590	8,100	1,016	929
1971-1972	17,961	12,537	11,004	8,400	789	722
1972-1973	15,891	11,108	9,282	7,400	633	580
1973-1974	14,042	9,550	8,470	6,600	886	810
1974-1975	11,584	8,110	5,643	4,400	438	400
1975-1976	12,142	8,200	6,173	4,800	471	520
1976-1977	12,160	8,270	7,295	5,600	346	320
1977-1978	12,482	8,490	8,403	5,750	294	270
1978-1979	11,142	7,620	7,386	5,760	290	265
1979	10,930	7,470	7,699	6,010	308	280
1980	9,918	6,940	8,114	6,410	237	215

1/ Pack year ended May 31 through 1978-1979 and calendar years 1979 and 1980.

2/ 24 #2 1/2 can, 45-lb. cases.

3/ 24 #2 1/2 can, 42 1/2-lb. cases.

Source: The Pineapple Growers Association of Hawaii, Pineapple Fact Book/Hawaii 1973 (January 1973), p. 18, and records; Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual), and records.

Table 515.-- SUGAR COMPANIES AND MILLS, BY ISLANDS: 1970 TO 1980

[As of December 31.]

Year	State total	Hawaii	Maui	Oahu	Kauai
Companies: 1/					
1970	23	10	3	3	7
1971	23	10	3	3	7
1972	21	10	3	2	6
1973	19	8	3	2	6
1974	17	7	3	2	5
1975	16	6	3	2	5
1976 2/	16	6	3	2	5
1977 2/	16	6	3	2	5
1978 2/	15	5	3	2	5
1979 2/	15	5	3	2	5
1980 2/	15	5	3	2	5
Mills:					
1970	26	12	4	4	6
1971	26	12	4	4	6
1972	23	12	4	2	5
1973	21	10	4	2	5
1974	20	9	4	2	5
1975	17	7	4	2	4
1976	17	7	4	2	4
1977	16	6	4	2	4
1978	14	5	3	2	4
1979	14	5	3	2	4
1980	14	5	3	2	4

1/ Does not include United Cane Planters' Cooperative (in Hawaii County) which consists of small, independent growers.

2/ Revised from 1980 edition, table 450.

Source: Hawaiian Sugar Planters' Association, records.

Table 516.-- SUGAR AND MOLASSES PRODUCTION: 1970 TO 1980

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area		96° raw value	Equivalent refined	
1970 ...	238,997	113,816	10,457,377	1,162,071	1,086,000	322,480
1971 ...	232,278	115,810	10,685,019	1,229,976	1,149,510	330,227
1972 ...	229,611	108,456	9,929,068	1,118,883	1,045,708	307,543
1973 ...	226,580	108,189	9,645,452	1,128,529	1,054,723	301,500
1974 ...	224,227	95,826	9,082,684	1,040,742	972,677	293,380
1975 ...	221,426	105,125	9,485,299	1,107,199	1,034,788	301,335
1976 ...	221,551	99,926	9,172,649	1,050,457	981,757	275,352
1977 ...	220,729	96,770	8,994,388	1,033,739	966,132	284,349
1978 ...	220,697	99,355	9,263,190	1,028,933	961,641	310,238
1979 ...	218,773	100,610	9,632,135	1,059,737	990,430	325,831
1980 ...	217,718	97,358	9,214,136	1,023,232	956,313	315,088

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual 1981, pp. 10-11.

Table 517.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT AND EARNINGS: 1970 TO 1980

Year	Average raw sugar price 1/ (cents per lb.)	Hourly-rated employees		Industry wide strikes (weeks)	Average daily earnings 2/ (dollars)	
		Average number 3/	Total man-days		Wages	Employee benefits
1970 ...	8.08	8,908	2,139,183	-	24.24	10.00
1971 ...	8.52	8,610	2,077,011	-	26.08	10.27
1972 ...	9.10	8,127	1,934,563	-	29.09	11.23
1973 ...	10.30	7,900	1,897,369	-	30.86	12.48
1974 ...	29.43	7,700	1,744,346	6	34.41	15.81
1975 ...	22.49	7,800	1,937,973	-	37.34	15.66
1976 ...	13.31	7,500	1,854,272	-	43.12	17.28
1977 ...	11.11	7,200	1,660,298	3	43.92	19.97
1978 ...	13.74	7,200	1,771,530	-	47.06	21.28
1979 ...	15.20	7,065	1,762,838	-	50.49	22.21
1980 ...	30.18	7,076	1,793,237	-	56.72	24.68

1/ Average New York raw sugar price computed over all the days of the year (Hawaiian basis). The New York spot price was suspended from November 2, 1977 to August 20, 1979; figures for that period are based on Clearing Association settlement prices.

2/ For non-supervisory employees.

3/ Adults only.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual), as revised.

Table 518.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1970 TO 1980

[Calendar year data unless otherwise specified.]

Year	Pineapple ($1,000,000)		Sugar ($1,000)		
			Value of production 3/		
	Canned fruit and juices 1/	Fresh market sales 2/	Raw sugar 96°	Commercial molasses	Government payments
1970 ..	135.0	3.6	180,680	7,061	10,261
1971 ..	137.7	3.7	196,253	6,669	10,722
1972 ..	140.5	4.9	176,550	8,052	9,667
1973 ..	135.0	7.4	203,788	18,370	9,510
1974 ..	118.2	8.9	659,227	17,390	8,646
1975 ..	126.6	10.1	354,600	11,500	-
1976 ..	130.0	14.5	245,500	11,500	-
1977 ..	140.0	21.6	219,100	7,700	48,700
1978 ..	133.4	29.4	269,500	15,700	8,100
1979 ..	176.3	30.1	322,200	23,500	-
1980 ..	189.1	34.3	566,400	27,700	-

1/ Value of canned fruit and juices and by products shipped out-of-State and sold within State. Prior to 1979, data are for pack years beginning June 1.

2/ Value FAS shipping point for outshipments, delivered wholesalers local sales.

3/ Beginning with 1972, point of delivery changed from refinery to mill.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual) and records.

Section 23

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services.

These activities have undergone rapid growth in recent decades, in part because of higher prices. Retail sales increased from $1.1 billion in 1967 to $1.9 billion in 1972 and $3.3 billion in 1977. Wholesale sales rose from $1.0 billion in 1967 to $2.6 billion in 1977. Hotels, amusements, and other services reported receipts of $1.3 billion in 1977, compared with $310 million in 1967. General excise and use tax base data for more recent years indicate continued increases; between 1977 and 1980, the retailing tax base rose 45 percent, the wholesaling base by 48 percent, and the base for services by 59 percent. Major retail concentrations include Ala Moana Center, Waikiki, Pearlridge Center, and downtown Honolulu. The 19 department stores on Oahu reported sales of $425 million in 1980. In addition to civilian retail outlets, there are 104 commissaries, exchanges, clubs, and food services maintained by the armed forces; these facilities had sales of $300 million in 1980.

Growth has been especially rapid for hotels. The number of units in the State rose from 6,800 in 1959 to 27,000 in mid-1970 and 56,800 in February 1981. There were 412 hotels, motels and apartment-hotels in the State on the latter date, including 254 on the Neighbor Islands. Occupancy rates averaged 71.7 percent in Waikiki and 62.6 percent on the Neighbor Islands during 1980. The average daily room rate was $47.28 in 1980. The hotel payroll in 1979 totaled $219 million, compared with $58 million ten years earlier.

Fifty-eight feature motion pictures and television specials and series were filmed in Hawaii in 1980, accounting for local expenditures of $21 million.

The major source of these data is the United State Census of Business, most recently conducted at the end of 1977. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Visitors Bureau and the firm of Pannell, Kerr, & Forster . The Hawaii Film Office in the Department of Planning and Economic Development compiles data on motion picture and television production. A summary of figures on trade and services in earlier years appears in Historical Statistics of Hawaii, Section 20. The Statistical Abstract of the United States: 1980, Section 30, presents similar data for other states and the nation as a whole.

Table 519.-- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES: 1963 TO 1977

Year	Retail trade		Wholesale trade		Selected services	
	Establishments	Sales ($1,000)	Establishments	Sales ($1,000)	Establishments	Receipts ($1,000)
1963	4,578	751,411	974	735,205	3,431	163,094
1967	5,212	1,083,458	1,030	1,013,813	4,057	310,290
1972 (1967 def.)	6,416	1,881,516	1,311	1,511,398	5,570	583,289
1972 (1972 def.)	6,392	1,864,985	1,336	1,538,429	6,348	683,201
1972 (1977 def.)	5,880	1,859,929	1,337	1,561,654	6,348	664,857
1977	7,388	3,294,118	1,569	2,571,489	8,023	1,276,163

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), pp. 513, 524, and 526. U.S. Bureau of the Census *1977 Census of Retail Trade*, RC77-A-12, table 2; *1977 Census of Wholesale Trade*, WC77-A-12 (Revised), table 2; and *1977 Census of Service Industries*, SC77-A-12, table 2.

Table 520.-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES: 1970 TO 1980

[In thousands of dollars.]

Year reported 1/	Retailing	Services 2/	Theater, amusement, broadcasting, etc.	Wholesaling
1970	1,895,089	504,191	43,588	854,660
1971	2,030,170	523,824	48,503	918,425
1972	2,213,704	578,260	53,108	1,002,214
1973	2,560,799	697,419	60,079	1,220,818
1974	2,959,201	783,771	66,557	1,374,819
1975	3,382,804	919,912	74,561	1,527,057
1976	3,724,487	978,091	82,134	1,721,874
1977 3/ ...	4,222,169	1,095,066	92,827	1,989,981
1978 3/ ...	4,774,076	1,222,996	104,085	2,158,707
1979	5,519,889	1,412,195	109,143	2,800,951
1980	6,103,844	1,743,003	121,562	2,952,011

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 521.-- CHARACTERISTICS OF RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICE INDUSTRIES: 1977

Subject	Retail trade	Wholesale trade	Selected services 1/
All establishments:			
Number	7,388	1,569	8,023
Sales ($1,000)	3,294,118	2,571,489	...
Receipts ($1,000)	...	...	1,276,163
Inventories, Dec. 31 ($1,000)	...	248,195	...
Operating expenses ($1,000)	...	375,803	...
Unincorporated businesses (number):			
Sole proprietorships	3,120	...	5,540
Partnerships	516	...	456
Establishments with payroll:			
Number	5,273	...	3,306
Sales ($1,000)	3,222,715	...	...
Receipts ($1,000)	...	...	1,216,214
Payroll ($1,000):			
Entire year	460,322	177,556	389,691
First quarter	111,143	43,517	94,434
Paid employees, week incl. March 12	72,098	14,695	49,438

1/ Includes hotels; personal services; business services; automotive repair, services, and garages; miscellaneous repair services; amusement and recreation services, including motion pictures; dental laboratories; legal services; and engineering, architectural, and surveying services.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-A-12, table 1; 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 1, and 1977 Census of Service Industries, SC77-A-12, table 1.

Table 522.-- RETAIL TRADE, BY KIND OF BUSINESS: 1977

Kind of business	Number of establishments	Sales ($1,000)
Retail trade	7,388	3,294,118
Building materials, hardware, garden supply, and mobile home dealers	194	74,462
General merchandise group stores	259	631,505
Food stores	876	651,259
Automotive dealers	291	457,429
Gasoline service stations	415	176,079
Apparel and accessory stores	733	204,037
Furniture, home furnishings, and equipment stores	444	102,188
Eating and drinking places	1,657	484,098
Drug and proprietary stores	115	174,155
Miscellaneous retail stores	2,404	338,906

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC 77-A-12, table 1.

Table 523.-- RETAIL TRADE OF COUNTIES AND URBAN PLACES: 1977

County or urban place	Number of establishments	Sales ($1,000)
State total	7,388	3,294,118
Hawaii County	846	275,938
Hilo	416	183,782
Remainder of county	430	92,156
Honolulu County	5,367	2,604,207
Aiea	165	82,668
Ewa Beach	44	8,460
Foster Village	22	2,329
Haleiwa	52	14,465
Honolulu	3,921	1,905,160
Kailua	213	96,645
Kaneohe	186	94,527
Laie	11	2,412
Maunawili	10	374
Pearl City	71	50,077
Wahiawa	139	42,517
Waialua	15	1,586
Waianae	33	18,802
Waimalu	15	5,592
Waipahu	147	101,706
Remainder of county	323	176,887
Kauai County	433	126,399
Kapaa	115	23,962
Lihue	136	63,489
Remainder of county	182	38,948
Maui County	742	287,574
Island of Lanai	13	2,600
Island of Molokai	39	9,626
Kahului	152	111,635
Lahaina	239	72,741
Wailuku	129	45,459
Remainder of county	170	45,513

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-A-12, table 7.

Table 524.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS: 1972 AND 1977

[Excludes establishments without payroll.]

Merchandise line	Number of establishments		Sales of specified merchandise line ($1,000)	
	1972	1977	1972	1977
Total 1/	4,491	5,273	1,832,909	3,222,715
Groceries and other foods	858	994	362,374	607,831
Meals and snacks	1,278	1,501	210,659	407,809
Alcoholic drinks	565	657	53,361	89,649
Packaged alcoholic beverages	412	521	39,022	97,856
Cigars, cigarettes, and tobacco	590	596	17,161	35,569
Drugs	362	396	53,439	48,354
Other health aids		576		71,285
Toiletries	449		17,419	
Men's, boys' clothing exc. footwear	496	732	69,018	130,678
Women's, girls' clothing exc. footwear	635	823	110,934	212,663
Footwear exc. infants and toddlers	344	475	298,787	59,104
Curtains, draperies, and dry goods	327	328	42,209	49,749
Major household appliances	179	170	31,361	33,755
Televisions	284	152	38,088	12,977
Audio equip., musical instr., supplies		265		31,966
Small electric appliances	438	242	32,763	14,987
Kitchenware and home furnishings		661		63,732
Furniture and sleep equipment	188	200	33,160	44,484
Floor coverings	147	172	11,821	14,940
Jewelry	542	871	50,991	143,117
Optical goods		152		8,113
Sporting goods 2/	194	249	30,122	50,585
Hardware and tools	204	243	14,346	31,443
Lawn and garden equip. supplies	269	336	19,659	31,735
Lumber and building materials	125	171	30,788	51,343
Cars, trucks, powered vehicles 2/	117	94	194,360	337,893
Automotive fuels and lubricants	543	490	91,333	150,595
Auto tires, batteries, accessories	562	600	58,045	86,804
Household fuels and ice	21	1,208	13,278	208,401
All other merchandise	976		93,655	
Nonmerchandise receipts	1,958	949	83,731	94,706
Miscellaneous merchandise	(X)	(X)	25	592

Footnotes and source follow next table.

Table 525.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS, BY BROAD GEOGRAPHIC AREAS: 1977

[Excludes establishments without payroll.]

Merchandise line	Number of establishments		Sales of specified merchandise line ($1,000)	
	Oahu	Rest of state	Oahu	Rest of state
Total 1/	3,815	1,458	2,553,848	668,867
Groceries and other foods	657	337	448,827	159,004
Meals and snacks	1,138	363	333,143	74,666
Alcoholic drinks	501	156	75,702	13,947
Packaged alcoholic beverages	317	204	76,243	21,613
Cigars, cigarettes, and tobacco	366	230	29,565	6,004
Drugs	227	169	38,918	9,436
Health and beauty aids	329	247	60,139	11,146
Men's, boys' clothing exc. footwear	449	283	107,810	22,868
Women's, girls' wear exc. footwear	513	310	176,151	36,512
Footwear exc. infants and toddlers	299	176	51,503	7,601
Curtains, draperies, and dry goods	205	123	39,684	10,065
Major household appliances	114	56	24,471	9,284
Small electric appliances	153	89	11,400	3,587
Televisions	94	58	9,326	3,651
Audio equip., musical instr., supplies	176	89	27,308	4,658
Furniture and sleep equipment	139	61	34,250	10,234
Floor coverings	114	58	11,431	3,509
Kitchenware and home furnishings	387	274	50,500	13,232
Jewelry	561	310	123,294	19,823
Optical goods	97	55	7,588	525
Sporting goods	160	89	41,086	9,499
Hardware and tools	126	117	19,796	11,647
Lawn and garden equip., supplies	216	120	23,764	7,971
Lumber and building materials	110	61	34,314	17,029
Cars, trucks, powered vehicles	66	28	269,917	67,976
Automotive fuels and lubricants	339	151	113,529	37,066
Auto tires, batteries, accessories	429	171	65,794	21,010
All other merchandise	775	433	169,278	39,123
Nonmerchandise receipts	674	275	78,812	15,894
Miscellaneous merchandise	(X)	(X)	305	287

X Not applicable.

1/ Because some establishments carry more than one merchandise line, the number of establishments for each line will not add to the indicated totals.

2/ Recreational vehicles were included with "Sporting goods" in 1972; with "cars, trucks, powered vehicles" in 1977.

Source: U.S. Bureau of the Census, Census of Retail Trade: 1972, Retail Merchandise Lines, Hawaii, and 1977 Census of Retail Trade: Merchandise Line Sales, Hawaii (unpublished tabulations filed in the Hawaii Department of Planning and Economic Development Library).

Table 526.-- DEPARTMENT STORES, FOR THE STATE, OAHU, AND HONOLULU: 1948 TO 1980

Year	Number of stores, Dec.			Sales 1/ ($1,000)		
	State total	Oahu	Honolulu 2/	State total	Oahu	Honolulu 2/
1948	2	2	2	(D)	(D)	(D)
1954	4	4	2	(D)	(D)	(D)
1958	7	7	5	30,629	30,629	(D)
1963	13	13	7	71,776	71,776	63,021
1967	15	15	10	131,843	131,843	122,260
1972	19	15	10	215,428	205,619	167,758
1977	23	19	12	375,943	354,087	251,219
1978 3/ ..	...	19	...	...	373,774	...
1979 3/ ..	...	19	...	...	403,663	...
1980 3/ ..	...	19	...	...	424,525	...

D Withheld to avoid disclosing data for individual companies.

1/ Data after 1972 exclude sales taxes and finance charges.

2/ Area southwest of the crest of the Koolau Mts., between Red Hill and Makapuu Pt.

3/ Survey data, limited to Oahu.

Source: U.S. Bureau of the Census, *U.S. Census of Business: 1948*, Bull. No. 1-RWS-51; *U.S. Census of Business: 1954*, Bull. R-1-52 and CBD-47; *U.S. Census of Business: 1958*, BC58-RA52 and BC58-CBD36; *U.S. Census of Business: 1963*, BC63-RA13 and BC63-MRC-43; *U.S. Census of Business, 1967*, BC67-RA13 and BC67-MRC-12; *Census of Retail Trade, 1972*, RC72-A-12 and RC72-C-12; *1977 Census of Retail Trade*, RC77-A-12 and RC77-C-12; *Current Business Reports*, *Monthly Department Store Sales in Selected Areas*, BD-80-1, January 1980, and BD-80-12, December 1980.

Table 527.-- MAJOR RETAIL CENTERS, FOR OAHU: 1967 TO 1977

Retail center	1977			1972: retail sales ($1,000)	1967: retail sales ($1,000)
	Number of retail stores	Retail sales ($1,000)	Paid retail employees 1/		
Oahu, total	5,262	2,574,973	57,584	1,489,602	899,741
Honolulu CBD 2/	485	122,873	3,748	65,471	55,138
Ala Moana Center 3/.	187	307,498	7,017	218,844	122,051
Waikiki 4/	646	307,233	7,626	169,084	84,005
Kahala Mall 5/	55	47,407	1,107	41,625	15,984
Pearlridge Center 6/	102	118,867	2,794	18,606	...

1/ For week including March 12.

2/ The Honolulu Central Business District in 1977 consisted of the area bounded by Nuuanu Stream, School Street, Queen Emma Street, Beretania Street, Richards Street, Halekauwila Street, Nimitz Highway, Nuuanu Avenue extended, and Honolulu Harbor. That part of the 1977 CBD between Beretania and School Streets was excluded in earlier years. Based on the previous definition, the Honolulu CBD had 415 establishments and $94,811,000 in retail sales in 1977. The area added between 1972 and 1977 had 70 establishments and $28,062,000 in sales in 1977.

3/ The area bounded by Kapiolani Blvd., Mahukona Street, Atkinson Drive, Ala Moana, and Piikoi Street.

4/ The area bounded by the Ala Wai Canal, Kapahulu Avenue, and the ocean.

5/ Kahala Mall plus retail establishments on Waialae Avenue from Hunakai Street to Kilauea Avenue.

6/ The area bounded by Moanalua Road, Pali Momi Street, Kamehameha Highway, and Kaonohi Street. Opened 1972.

Source: U.S. Bureau of the Census, 1967 Census of Business, BC67-MRC 12, as corrected; 1972 Census of Retail Trade, RC72-C-12; 1977 Census of Retail Trade, RC-77-C-12, and underlying tabulations provided July 24, 1980.

Table 528.-- CHARACTERISTICS OF SELECTED SHOPPING CENTERS: 1979

Island and name of center	Location	Year opened	Site area (acres)	Building area (1,000 square feet)	Parking spaces	Number of stores
Oahu: 1/						
Ala Moana Center ...	Honolulu	1958	50	1,400	7,800	155
Kahala Mall	Honolulu	1954	22	370	1,500	60
Pearl City S. C. ...	Pearl City	1965	15	249	900	36
Pearlridge Center ..	Aiea	1972	59	1,200	4,950	140
Waikiki Shopping Plaza	Honolulu	1977	1.1	300	300	50
Hawaii: 2/						
Kaiko'o Mall S. C. .	Hilo	1970	14	220	950	33
Maui: 2/						
Kaahumanu Center ...	Kahului	1973	25	254	1,409	50
Kahului S. C.	Kahului	1951	17	104	1,000	30
Maui Mall	Kahului	1971	27	203	1,250	40
Kauai: 2/						
Lihue S. C.	Lihue	1966	9	142	551	24

1/ Includes centers with more than 200,000 square feet of building area.
2/ Includes centers with more than 100,000 square feet of building area.
Source: Chamber of Commerce of Hawaii, Shopping Centers in Hawaii (November 1979).

Table 529.-- ALA MOANA CENTER STATISTICAL SUMMARY: 1959 TO 1980

[All figures except sales are as of December 31.]

Year	Number of stores	Retail floor space (1,000 sq. ft.)	Annual sales ($1,000)	Parking spaces	Land area (acres)
1959 1/	87	655.0	15,361	4,000	50
1960	87	677.0	39,474	4,000	50
1961	87	677.0	45,923	4,000	50
1962	87	677.0	50,200	4,000	50
1963	87	689.8	52,750	4,000	50
1964	87	692.6	59,471	4,000	50
1965	87	680.4	65,471	4,000	50
1966	155	1,351.5	87,655	7,800	50
1967	155	1,351.5	108,953	7,800	50
1968	155	1,352.3	127,223	7,800	50
1969	155	1,352.8	149,702	7,800	50
1970	155	1,364.7	167,970	7,800	50
1971	155	1,368.9	179,989	7,800	50
1972	155	1,370.7	193,670	7,800	50
1973	155	1,371.0	214,141	7,800	50
1974	155	1,382.2	227,731	7,800	50
1975	155	1,382.8	237,985	7,800	50
1976	155	1,383.1	261,160	7,800	50
1977	155	1,433.8	285,752	7,800	50
1978	155	1,434.7	325,564	7,800	50
1979	155	1,435.4	351,504	7,800	50
1980	155	1,501.8	(NA)	7,800	50

NA Not available.

1/ Earliest year available. Construction of Ala Moana Center was begun in March 1958. The Center was formally opened October 29, 1959.

Source: Ala Moana Center, Management office, records.

Table 530.-- SHOPPING CENTERS: 1970 TO 1980

Year (Dec. 31)	Number of stores			Gross leasable area (1,000 square feet)		
	State total	Oahu	Other islands	State total	Oahu	Other islands
1970	938	739	199	4,742	3,999	743
1971	970	743	227	4,987	4,201	786
1972	1,212	931	281	5,789	4,837	953
1973	1,622	1,166	456	6,710	5,243	1,467
1974	1,786	1,284	502	7,640	6,115	1,525
1975	2,033	1,446	587	8,287	6,620	1,667
1976	2,215	1,593	622	8,723	7,002	1,720
1977	2,374	1,719	655	9,222	7,422	1,800
1978	2,635	1,729	906	9,602	7,492	2,110
1979	2,734	1,818	916	10,002	7,806	2,196
1980	2,755	1,839	916	10,149	7,953	2,196

Source: Bank of Hawaii, Hawaii 79 (August 1979), p. 33; Hawaii 81 (August 1981), p. 30, and records.

Table 531.-- ANNUAL SALES OF RETAIL FACILITIES OPERATED BY THE ARMED FORCES: 1979 AND 1980

Type of facility	Locations		Annual sales ($1,000)	
	1979	1980	1979	1980
Total	81	104	266,555	299,775
Commissaries	6	7	83,595	98,237
Exchanges	20	23	150,159	166,564
Clubs	38	31	24,554	19,367
Food service	17	43	8,248	15,607

Source: Hawaii State Department of Planning and Economic Development, Retail Sales by the Armed Forces, 1980 (Statistical Report 144, April 8, 1981), table 2.

Table 532.-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1977

Type of operation and kind of business	Number of establishments	Sales ($1,000)
Wholesale trade	1,569	2,571,489
Type of operation:		
Merchant wholesalers	1,261	1,430,527
Manufacturers' sales branches and offices	166	902,959
Agents, brokers, and commission merchants	142	238,003
Kind of business:		
Motor vehicles and automotive parts and supplies	93	121,496
Furniture and home furnishings	53	45,388
Lumber and other construction materials	80	122,909
Sporting, recreational, photo, and hobby goods, toys and supplies	42	40,235
Metals and minerals, except petroleum	16	22,006
Electrical goods	100	182,752
Hardware, and plumbing and heating equipment and supplies	72	59,444
Machinery, equipment, and supplies	237	230,427
Miscellaneous durable goods	99	53,322
Paper and paper products	61	67,270
Drugs, drug proprietaries, and druggists' sundries	42	47,513
Apparel, piece goods, and notions	71	58,661
Groceries and related products	310	696,494
Farm-product raw materials	6	2,603
Chemicals and allied products	25	31,354
Petroleum and petroleum products	43	506,337
Beer, wines, and distilled alcoholic beverages	31	130,745
Miscellaneous nondurable goods	188	152,533

Source: U.S. Bureau of the Census, 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 1.

Table 533.-- WHOLESALE TRADE OF COUNTIES AND URBAN PLACES: 1977

County and urban places	Number of establishments	Sales ($1,000)
State total	1,569	2,571,489
Hawaii County	148	185,159
Hilo	114	159,370
Remainder of county	34	25,789
Honolulu County	1,277	2,166,760
Honolulu	1,141	1,990,955
Kailua...................	21	22,173
Kaneohe	20	10,039
Pearl City	10	23,970
Waipahu	23	51,206
Remainder of county	62	68,417
Kauai County	49	58,848
Lihue	29	31,989
Remainder of county	20	26,859
Maui County	95	160,722
Island of Lanai	2	(D)
Island of Molokai	5	(D)
Kahului	49	134,283
Lahaina	5	1,187
Wailuku	29	20,358
Remainder of county	5	(D)

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 7.

Table 534.-- SELECTED SERVICE INDUSTRIES, BY KIND OF BUSINESS: 1977

Kind of business	Number of establishments	Receipts ($1,000)
Selected service industries	8,023	1,276,163
Hotels, motels, trailering parks, and camps	240	548,829
Personal services	1,927	83,249
Business services	2,351	173,440
Automotive repair, services, and garages ..	864	164,276
Miscellaneous repair services	587	34,425
Amusement and recreation services, including motion pictures	961	87,670
Dental laboratories	52	4,452
Legal services	506	68,671
Engineering, architectural, and surveying services	535	111,151

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-A-12, table 1.

Table 535.-- MISCELLANEOUS SERVICE INDUSTRIES: 1977

Kind of business	Number of establishments	Receipts 1/ ($1,000)
Arrangement of passenger transportation	411	75,702
Health services (nongovernment):		
Taxable	1,589	194,951
Nontaxable 2/	39	*88,399
Producers, orchestras, entertainers:		
Taxable	85	11,834
Nontaxable	5	(D)
Educational services (private):		
Taxable	64	7,642
Nontaxable	70	*48,966
Social services (nongovernment):		
Taxable	62	4,522
Nontaxable	206	*37,341
Membership organizations, except religious: 2/		
Business associations	56	*8,015
Professional membership associations	20	*3,076
Labor unions and similar labor org.	68	*16,640
Civic, social, and fraternal associations	181	*18,647
Political organizations	3	*392
Membership organizations, n.e.c.	34	*2,487
Accounting, auditing, and bookkeeping services	677	46,348
Membership sports and recreation clubs: 2/		
Taxable	15	5,178
Nontaxable	13	(D)

(D) Withheld to avoid disclosing data for individual companies.

1/ Figures preceded by an asterisk (*) refer to expenses rather than receipts.

2/ Data exclude organizations without payroll.

Source: U.S. Bureau of the Census, 1977 Economic Censuses, Advance Subject Reports SC77-S-7(A), SC77-S-8(A), SC77-S-9.2(A), SC77-S-9.4(A), SC77-S-9.5(A), SC77-S-9.6(A), SC77-S-9.7(A).

Taole 536.-- SELECTED SERVICE INDUSTRIES FOR COUNTIES AND URBAN PLACES: 1977

[Includes hotels, motels, personal services, business services, automotive repair, services and garages, miscellaneous repair services, amusement and recreation services, including motion pictures, dental laboratories, legal services, and engineering, architectural, and surveying services.]

County and urban places	Number of establishments	Receipts ($1,000)
State total	8,023	1,276,163
Hawaii County	797	133,601
Hilo	411	48,568
Remainder of county	386	85,033
Honolulu County	6,214	963,452
Aiea	132	6,144
Honolulu	4,683	883,257
Kailua	304	11,143
Kaneohe	212	9,563
Pearl City	106	3,755
Wahiawa	128	4,742
Waipahu	143	7,648
Remainder of county	506	37,200
Kauai County	340	56,421
Kapaa	75	7,983
Lihue	113	28,618
Remainder of county	152	19,820
Maui County	672	122,689
Island of Lanai	8	(D)
Island of Molokai	37	2,990
Kahului	121	26,717
Lahaina	136	53,983
Wailuku	175	13,438
Remainder of county	195	(D)

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-A-12, table 7.

Table 537.-- SELECTED BUSINESS ESTABLISHMENTS SERVING VISITORS: 1972 AND 1977

Kind of business	Number of establishments		Sales or receipts ($1,000)	
	1972	1977	1972	1977
Retail businesses				
Eating places	1,139	1,356	227,590	433,180
Drinking places (alcoholic beverages)	279	301	33,785	50,918
Camera and photo supply stores	51	58	(D)	15,303
Gift and souvenir shops	219	332	21,486	60,810
Luggage and leather goods stores	7	21	(D)	5,396
Services				
Hotels	187	191	230,972	542,135
Motels, motor hotels, tourist courts	33	45	10,634	6,628
Automobile rental and leasing	103	116	40,196	89,205

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-A-12, table 2, and 1977 Census of Service Industries, SC77-A-12, table 2.

Table 538.-- HOTEL AND MOTEL CHARACTERISTICS: 1977

[Data are shown only for establishments with payroll.]

Subject	Hotels, 25 guestrooms or more		Hotels, fewer than 25 guestrooms	Motels, tourist courts	Motor hotels
	State total	Oahu			
Establishments 1/	153	93	14	24	7
Guestrooms as of Dec. 31 2/	35,426	23,766	221	626	(D)
Receipts ($1,000):					
Receipts from customers, total	540,697	338,339	1,085	3,279	(D)
Guestroom rentals	326,858	213,947	1,044	2,509	(D)
Meals, nonalcoholic beverages ...	133,265	72,308	-	609	(D)
Alcoholic beverages	50,134	28,825	41	56	(D)
Packaged liquor, wine, beer 3/ ..	1,067	1,103	-	15	(D)
Other merchandise	5,078	1,237	-	90	(D)
Other sources	24,295	20,919	-	-	(D)
Other rental, concession receipts .	17,442	13,272	76	(V)	(D)
Payroll, entire year ($1,000)	159,233	98,607	318	843	(D)
Payroll, first quarter ($1,000)	39,199	24,583	79	204	(D)
Paid employees, week of March 12	21,504	13,886	63	153	(D)
Weighted average percent of occupancy	80.9	(NA)	(D)	(D)	(D)
Average rate per occupied room (dollars)	31	(NA)	(D)	(D)	(D)

(D) Withheld to avoid disclosing data for individual companies.
(V) Insufficient coverage.
(NA) Not available.

1/ Hotels, motels, tourist courts, and motor hotels in Hawaii (with or without payroll) numbered 236. Of the 198 with payroll, the principal class of customer was reported as commercial for 19, tourist for 165, group/convention for 9, and other or unknown for 5.

2/ Guestrooms in hotels in business at the end of the year numbered 35,647, including 35,443 for transient guests and 204 for residential guests.

3/ The Oahu total for larger hotels exceeds the Statewide total, probably because of the method for expanding data from partial returns.

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, Subject Series, Hotels, Motels, and Other Lodging Places, SC-77-S-2 (April 1981), tables 1, 2, 3, 5, 10, and 15.

Table 539.-- HOTEL UNITS AND OCCUPANCY RATES, BY GEOGRAPHIC AREAS: 1967 TO 1980

Year	Number of hotel units, October 1/			Percent of units occupied, annual average 2/		
	State total	Oahu	Neighbor islands	State total 3/	Waikiki	Neighbor islands
1967	18,235	13,004	5,231	85.5	90.0	72.8
1968	21,243	15,138	6,105	83.7	89.2	75.2
1969	25,822	18,209	7,613	77.8	81.3	69.3
1970	30,323	21,217	9,106	71.2	74.1	64.8
1971	35,349	24,612	10,737	60.4	58.9	63.5
1972	35,653	24,441	11,212	68.9	70.0	66.4
1973	37,319	24,969	12,350	77.7	81.5	70.2
1974	39,558	25,352	14,206	77.5	82.0	69.4
1975	40,691	25,699	14,992	74.1	78.3	68.3
1976	44,093	27,099	16,994	76.9	82.6	68.4
1977	46,048	28,083	17,965	77.4	81.2	71.7
1978	48,790	29,294	19,496	79.5	82.1	75.5
1979	51,782	32,088	19,694	73.8	77.1	70.2
1980	55,700	34,173	21,527	67.4	71.7	62.6

1/ Except 1967 (December) and 1968 (November). Includes condominium units in rental pools for transient occupancy.

2/ Data for 1976 and later years omit several major hotels.

3/ Data include Oahu outside Waikiki, not shown separately.

Source: Hawaii Visitors Bureau, Annual Research Report (annual), Visitor Plant Inventory (three times a year), and records.

Table 540.-- HOTEL EMPLOYMENT AND PAYROLL RATIOS: 1970 TO 1981

		Hotel employment, annual average 2/		Hotel payrolls, annual 2/		
Year	Hotel units, June 1/	Total	Per unit	Total ($1,000)	Per unit (dollars)	Per worker (dollars)
1970	27,519	13,613	0.49	66,924	2,432	4,916
1971	33,163	15,550	0.47	78,222	2,359	5,030
1972	35,945	17,619	0.49	93,915	2,613	5,330
1973	37,131	18,857	0.51	107,525	2,896	5,702
1974	39,222	19,139	0.49	115,599	2,947	6,040
1975	39,977	19,885	0.50	128,659	3,218	6,470
1976	42,811	21,130	0.49	155,123	3,623	7,341
1977	46,143	22,313	0.48	175,602	3,806	7,870
1978	48,034	22,548	0.47	195,861	4,078	8,686
1979	51,185	23,735	0.46	218,954	4,278	9,225
1980	55,571	24,754	0.45	244,655	4,403	9,883
1981	56,502	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Includes condominium units in rental pools for transient occupancy.

2/ For workers covered by the Hawaii Unemployment Security Law.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory (June issues) and Annual Research Report; Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 541.-- HOTELS AND OTHER ACCOMMODATIONS, BY GEOGRAPHIC AREAS:
1970 AND 1981

Geographic area	February 1970		February 1981		
	Properties 1/	Units	Properties 1/	Units	
				Total	Condo 2/
State total ..	275	26,923	412	56,769	14,194
Oahu	152	18,449	158	33,967	5,639
Waikiki 3/	124	16,590	126	29,473	4,438
Hotels	55	13,825	62	23,936	-
Apartment-hotel	63	2,488	63	5,465	4,438
Other 4/	6	277	1	72	-
Other Honolulu ...	9	1,105	9	2,444	1,201
Rest of Oahu	19	754	23	2,050	
Other islands	123	8,474	254	22,802	8,555
Hawaii	41	3,166	61	6,705	1,259
Kauai	31	2,565	57	4,738	1,856
Maui	48	2,643	129	10,713	5,107
Molokai	2	89	6	635	333
Lanai	1	11	1	11	-

1/ Hotels, apartment-hotels (including condominiums in transient use), motels, cottages, etc.

2/ Condominium units in rental pools for transient use. Included in total units. Condominium properties in 1981 numbered 198.

3/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal.

4/ Motels, cottages, etc.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory for February 1970 and February 1981.

Table 542.-- HOTEL UNITS, EXISTING AND PLANNED, BY ISLANDS AND RESORT AREAS: 1980 AND 1981

Geographic area	Existing units, February		Units under construction or planned, Feb. 1981, by completion date		
	1980	1981	1981	1982 or 1983	No date
State total	54,246	56,769	1,776	2,427	4,632
Oahu	34,334	33,967	-	1,056	1,000
Waikiki and Kahala	30,443	29,473	-	1,056	500
Ala Moana	1,725	1,689	-	-	-
Honolulu	67	67	-	-	500
Airport	692	688	-	-	-
Leeward	613	1,379	-	-	-
Windward	794	671	-	-	-
Hawaii	5,889	6,705	548	350	1,700
Hilo-Honokaa	1,954	1,944	-	-	-
Naalehu-Ka'u	53	48	-	-	-
Volcano	38	37	-	-	-
Waimea-Kohala	407	483	548	350	-
Kona	3,437	4,193	-	-	1,700
Maui	9,133	10,713	768	700	800
Wailuku-Kahului	412	412	-	400	-
Lahaina-Napili	5,357	6,718	720	-	-
Hana	90	88	-	-	-
Kula-Makawao	14	14	-	-	-
Kihei-Wailea	3,260	3,481	48	300	800
Kauai	4,322	4,738	460	321	1,132
Lihue	894	779	-	-	350
Wailua-Kapaa	2,180	2,257	-	89	297
Hanalei	464	569	-	-	300
Poipu	753	1,101	460	232	185
Kalaheo	20	20	-	-	-
Kokee	11	12	-	-	-
Molokai	557	635	-	-	-
Lanai	11	11	-	-	-

Source: Hawaii Visitors Bureau, Visitor Plant Inventory for February 1980 and February 1981.

Table 543.-- PERCENT OF HOTEL UNITS OCCUPIED, BY GEOGRAPHIC AREAS: ANNUAL AVERAGES, 1979 AND 1980

Geographic area	1979	1980
State total	73.8	67.4
Oahu	76.0	72.4
Waikiki	77.1	71.7
Hawaii	62.0	52.7
Hilo	52.0	39.7
Kailua-Kona	65.1	55.7
Other	75.2	76.7
Maui	73.0	66.2
Wailuku-Kahului	84.3	74.4
Lahaina	75.8	69.8
Other	64.7	57.8
Kauai	76.5	69.0
Lihue	79.9	73.6
Poipu	79.4	66.9
Other	45.4	42.8

Source: Hawaii Visitors Bureau, 1979 Annual Research Report, pp. 26-27, and records.

Table 544.-- HOTEL OCCUPANCY AND ROOM RATES, BY GEOGRAPHIC AREA: ANNUAL AVERAGES, 1979 AND 1980

Geographic area	Percentage of occupancy		Average daily room rate (dollars)		Average daily guest rate (dollars)	
	1980	1979 1/	1980	1979 1/	1980	1979 1/
State	67.75	73.46	47.28	44.40	24.40	22.72
Oahu	71.04	75.92	42.83	41.42	22.32	21.19
Waikiki:						
On beach	72.72	78.21	59.01	53.18	30.25	27.25
Off beach:						
With restaurant ...	71.47	75.37	34.51	32.77	17.42	16.48
Without restaurant.	65.72	67.63	30.04	27.80	15.91	14.45
Other Oahu	73.54	81.34	45.34	47.44	25.50	24.86
Hawaii	47.31	58.50	46.40	41.44	24.03	21.32
Hilo	33.81	44.56	33.71	32.93	18.06	17.42
Kona	53.30	64.94	49.96	44.14	25.64	22.51
Maui	72.95	77.00	61.14	57.15	31.52	29.74
West end	74.84	79.30	62.96	58.64	31.60	28.57
Other Maui	67.38	71.35	55.17	53.07	31.22	33.97
Kauai	70.84	80.64	54.38	47.75	26.32	23.70
East end	73.90	79.73	52.66	47.98	26.01	23.96
South end	57.62	92.57	63.91	45.14	27.83	21.00

1/ Revised.

Source: Pannell, Kerr, Forster, Statistics and Trend of Hotel Business in Hawaii (monthly).

Table 545.-- MOTION PICTURE AND TELEVISION PRODUCTION: 1976 TO 1980

Subject	1976	1977	1978	1979	1980 1/
Number of features filmed	31	63	58	54	58
Feature films for theater viewing	3	4	3	6	6
Feature films for TV viewing	1	5	5	8	2
Television specials and series 2/	27	54	50	40	50
Gross budgets (millions of dollars) 3/	26	39	45	78.5	47.5
Feature films and television specials and series	20	30	36	63.5	36.5
Television commercials and related advertising	6	9	9	15	11
Expenditures in Hawaii for feature films and TV specials and series (millions of dollars)	11	16	22	34.75	21.2
Tax revenues generated (millions of dollars)	1.01	1.51	2.04	3.14	1.9
Employment:					
Total	918	1,265	1,610	2,543	1,551
Direct	622	856	1,091	1,723	1,051
Spending effect on economy (millions of dollars)	29.2	42.4	58.2	91.9	56.1

1/ The decrease in growth in 1980 was caused by two major anomalies: a prolonged strike of the Screen Actors Guild, which affected major productions during much of 1980, and changes in immigration regulation enforcement policies, which brought filming of foreign TV commercials to a virtual halt.

2/ Each program in a series counted separately.

3/ Includes post-production costs out of the State.

Source: Hawaii State Department of Planning and Economic Development, Hawaii Film Office, unpublished estimates.

Table 546.-- NUMBER AND GROSS SALES OF LIQUOR LICENSEES, FOR OAHU: 1979 AND 1980

Class of licensee	Licenses in effect, June 30		Gross sales of licensees, year ended June 30 ($1,000)	
	1979	1980	1979	1980
All categories	1,202	1,255	299,421	352,004
Cabarets	39	33	12,829	12,670
Clubs 1/	16	16	2,455	2,742
Dispensers 2/	647	682	103,583	117,872
Retailers 3/	450	467	71,778	82,946
Wholesalers	24	23	99,578	118,062
Manufacturers	4	4	1,104	1,039
Tour or cruise vessel ...	17	19	702	1,584
Hotel	5	8	7,392	15,089
Solicitor	-	3	-	-

1/ Private.
2/ Bars, restaurants, etc.
3/ Package goods stores, including supermarkets, drug stores, etc.

Source: City and County of Honolulu, Department of Finance, Liquor Commission, Forty-Eighth Annual Report of the Liquor Commission, 1979-80, p. 11, and information provided January 22, 1981.

Table 547.-- LIQUOR AND TOBACCO TAX BASES: 1975 TO 1980

[Wholesale value, in thousands of dollars. Excludes sales on military bases.]

Year 1/	Liquor tax base 2/			Tobacco tax base
	Total	Base for taxes paid	Base for taxes contested	
1975	69,210	69,210	-	22,878
1976	76,659	76,659	-	24,413
1977	86,229	86,229	-	26,077
1978	93,560	93,560	-	28,082
1979	111,588	88,859	22,729	31,020
1980	122,848	42,691	80,157	33,275

1/ Calendar year in which reported; data accordingly refer in general to liquor and tobacco sales for 12-month periods ended November 30.

2/ In 1979, several major distributors legally contested the State liquor tax law. Tax revenues that otherwise would have been collected under this law are being held in escrow until the courts rule on the case.

Source: Hawaii State Department of Taxation, "Liquor Tax Base, Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual release), and records.

Table 548.-- ALCOHOL BEVERAGE CONSUMPTION AND REVENUES, BY TYPE OF BEVERAGE: 1977

Type of beverage	Consumption		State and county revenues	
	Total (1,000 gal.)	Per capita 1/ (gal.)	Total 2/ ($1,000)	Per gallon (dollars)
All alcohol beverages ..	28,486	29.3	24,775	0.87
Distilled spirits	2,095	2.2	10,076	4.81
Wine	1,901	2.0	1,786	0.94
Beer	24,490	25.2	12,913	0.53

1/ Based on estimated de facto population (970,600). The corresponding national per capita amounts were 2.0 gal. for distilled spirits, 1.8 for wine, and 22.7 for beer.

2/ Includes county license fees ($1,828,000), general excise tax for retailing ($5,248,000) and wholesaling ($431,000), and ad valorem liquor tax ($17,268,000).

Source: Distilled Spirits Council of the United States, Inc., 1977 Public Revenues from Alcohol Beverages (1980), pp. 16, 20, and 33.

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Imports to Hawaii from foreign nations rose from $175 million in 1970 to $1.8 billion in 1980. Exports to foreign countries amounted to only $51 million in 1970, but by 1980 exceeded $174 million. (These figures, it should be noted, refer to merchandise imports and exports through the Honolulu Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State.)

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from $887 million in 1968 to $2.2 billion in 1978. Merchandise exported to the Mainland rose from $329 million in 1968 to $817 million in 1974, then slipped back to $495 million in 1978.

Among the foreign nations, Hawaii's leading trading partners in 1979 were Japan for imports and Australia for exports. Imports from Japan amounted to $202 million, or 16 percent of the total, while exports to Australia reached $41 million or 24 percent of all foreign exports. About 41 percent of all imports for consumption were petroleum and natural gas products.

Honolulu Foreign Trade Zone No. 9 handled merchandise valued at $37.2 million in fiscal 1930. Merchandise handled by Subzone No. 9A, the PRI refinery, was valued at $1.5 billion, almost all of it in petroleum and petroleum products.

Foreign-owned U.S. firms in Hawaii operated 138 establishments in 1976, and employed 7,729 persons with an annual payroll of $71 million. Out of 39,782 hotel rooms in the State as of July 1978, 8,381 (or 21.1 percent) were foreign owned.

Sources for statistics on interstate and foreign commerce include the U.S. Bureau of the Census (for foreign trade), the Bank of Hawaii (for interstate trade and balance of payments), Foreign Trade Zones No. 9 and 9A, the Hawaii International Services Agency, and recent studies of Foreign Investment in Hawaii and Selected Characteristics of Foreign-Owned U.S. Firms issued by the U.S. Department of Commerce. Further information appears in cargo data by origin and destination, compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 31 of Statistical Abstract of the United States: 1980. Long-term Island trends are summarized in Historical Statistics of Hawaii, Section 21.

Table 549.-- INTERSTATE TRADE:
1968 TO 1978

[In millions of dollars.]

Year	Imports	Exports
1968	886.7	329.1
1969	1,029.1	321.7
1970	1,194.1	339.8
1971	1,201.4	365.7
1972	1,220.0	350.2
1973	1,563.5	381.8
1974	1,866.2	817.0
1975	1,773.9	522.4
1976	1,756.3	415.2
1977	1,98[illegible].7	471.0
1978	2,185.5	494.7

Source: Bank of Hawaii, Hawaii 81 (August 1981), p. 44. Compiled from reports of major shippers and carriers, for commodities moving between Hawaii and the Mainland.

Table 550.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT: 1970 TO 1980

[Value, in millions of dollars, of U.S. imports and exports entered or exported through the Honolulu Customs District. The data may include imports intended for consumption on the Mainland and exports originated on the Mainland.]

Year	General imports 1/	Imports for consumption 1/	Exports of foreign and domestic merchandise 2/
1970	174.7	167.4	51.2
1971	223.6	215.5	46.3
1972	244.3	227.5	60.4
1973	340.1	304.9	72.8
1974	645.3	605.5	115.2
1975	784.4	757.6	95.7
1976	915.1	876.5	66.2
1977	1,038.2	988.1	98.3
1978	1,184.5	1,126.4	137.8
1979	1,334.6	1,238.5	176.1
1980	1,842.0	1,721.4	174.3

1/ Customs value basis. Excludes vessels under their own power or afloat and shipments valued under $251.

2/ Totals are on f.a.s. (free alongside ship) basis.

Source: U.S. Bureau of the Census, U.S. Foreign Trade: Highlights of Exports and Imports, FT 990 (through 1973) Highlights of U.S. Export and Import Trade, FT 990 (1974 and later), cumulative totals in December issues.

Table 551.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1980

[See headnote to preceding table.]

Category and method of transportation	Value 1/ (million dollars)	Shipping weight (million pounds)
General imports, all methods 2/	1,842.0	(NA)
Vessel	1,167.5	7,967.7
Air	633.8	16.7
Imports for consumption, all methods 3/	1,721.4	(NA)
Exports, all methods 2/	174.3	(NA)
Vessel	55.4	592.9
Air	66.5	12.9

NA Not available.

1/ Customs value basis for imports; f.a.s. (free alongside ship) value basis for exports. See source for definitions.

2/ Includes categories not tabulated by method of transportation, not shown separately.

3/ Not available by method of transportation.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, FT 990, December 1980, table E-4 (p. 39) and I-14 (pp. 126-127).

Table 552.-- FIREWORKS IMPORTED INTO THE HONOLULU CUSTOMS DISTRICT: 1978 TO 1980

Year	Pounds	Value (dollars)
1978	1,280,027	1,590,006
1979	730,375	1,174,513
1980	1,654,953	2,059,943

Source: U.S. Bureau of the Census, Foreign Trade Statistics, IA 253 (annual tabulations).

Table 553.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY REGION OF ORIGIN OR DESTINATION: 1979

[In dollars. Includes all foreign trade through the Honolulu Customs District, and thus may include imports intended for consumption in other States or exports originated in other States. Excludes imports intended for consumption in Hawaii but entering through other customs districts, and exports originated in Hawaii but shipped through other customs districts.]

Region	Imports for consumption	Exports of domestic merchandise
All regions	1,237,814,235	170,562,168
North America	85,906,679	3,569,289
South America	8,391,279	311,370
Europe	49,222,397	7,658,175
Asia	1,035,479,968	95,166,951
Australia and Oceania	58,470,549	63,813,685
Africa	345,809	42,701

Source follows next table.

Table 554.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COUNTRY OF ORIGIN OR DESTINATION: 1979

[See headnote to preceding table.]

Country 1/	Imports for consumption		Exports of domestic merchandise
	Total	Excluding petroleum and natural gas products	
All countries	1,237,814,235	725,793,586	170,562,168
Japan	202,100,820	202,100,480	32,823,386
Singapore	200,188,160	155,006,685	3,599,603
Indonesia	176,082,912	20,233,161	1,385,620
Malaysia	132,401,035	68,282,456	137,439
Brunei	124,742,255	13,717,977	9,034
Taiwan	81,811,158	81,811,158	8,655,612
Australia	28,791,604	27,961,482	41,384,818
Oman	63,771,283	7,308,665	-
Philippines	10,679,755	10,679,755	38,359,215
Bahamas	37,652,799	50,283	-
Netherlands Antilles	33,144,215	205,298	22,948
Hong Kong	23,365,622	23,365,622	4,188,493
Germany, West	20,112,205	20,122,205	4,719,254
New Zealand	16,186,503	16,165,498	5,506,701
Canada	14,770,895	14,770,895	3,271,892
Korea, Republic of	11,652,957	11,652,957	3,631,338
Trust Terr. of Pacific I. ...	332,454	332,454	11,035,227

1/ Shown separately for the 10 leading countries in each category, listed in order of total foreign trade through the District.

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Hawaii's Foreign Trade (International Business Series No. 5, December 1980).

Table 555.-- FOREIGN-TRADE ZONE NO. 9 AND SUBZONE NO. 9A OPERATIONS: 1968 TO 1980

Fiscal years 1/	Foreign-Trade Zone No. 9 2/					
	Firms using zone	User employment at zone	Value of mdse. ($1,000)		Revenue 3/ (dollars)	Expenditures 3/ (dollars)
			In/out	Exports		
1968 ..	82	42	6,279	498	88,060	122,718
1969 ..	94	56	10,079	1,187	120,990	122,628
1970 ..	124	65	11,682	1,850	160,438	156,424
1971 ..	138	57	17,363	3,147	206,159	193,450
1972 ..	132	58	20,648	2,895	289,301	229,379
1973 ..	140	83	23,377	2,775	267,393	260,251
1974 ..	139	113	25,394	6,140	355,737	325,633
1975 ..	148	131	29,798	6,317	463,008	415,371
1976 ..	179	139	24,396	4,576	481,172	429,496
1977 ..	205	145	25,702	3,956	700,470	606,720
1978 ..	191	193	29,095	4,395	835,004	574,044
1979 ..	204	221	34,928	4,450	545,380	568,607
1980 ..	211	263	37,156	6,396	638,961	615,361

Fiscal years 1/	Subzone No. 9A 4/				
	User 5/ employment at subzone	Merchandise, in/out		Exports	
		1,000 short tons	Value ($1,000)	1,000 short tons	Value ($1,000)
1968 ..	...	...	...	...	...
1969 ..	...	...	...	...	...
1970 ..	...	...	...	...	...
1971 ..	...	...	...	...	...
1972 ..	45	453.0	9,300	41.1	1,106
1973 ..	73	3,250.0	76,760	1,178.1	33,614
1974 ..	95	3,046.8	156,454	564.0	52,436
1975 ..	(NA)	3,794.6	340,996	707.1	72,003
1976 ..	159	5,755.7	534,023	815.2	80,719
1977 ..	156	6,349.6	608,815	893.2	83,134
1978 ..	139	6,837.5	705,711	1,178.5	117,247
1979 ..	149	6,507.8	862,559	1,070.1	149,646
1980 ..	161	6,408.9	1,471,841	1,184.5	295,528

NA Not available.

1/ Ended June 30, 1968 to 1976, and September 30, 1977 to 1980.

2/ Began operation June 15, 1966.

3/ Data for 1972-1979 revised from 1980 edition, table 488.

4/ Began operation April 7, 1972.

5/ Full-time users only.

Source: Hawaii State Department of Planning and Economic Development, Foreign-Trade Zone No. 9, records.

Table 556.-- CHARACTERISTICS OF ESTABLISHMENTS OF FOREIGN-OWNED U.S. FIRMS IN HAWAII: 1975 AND 1976

Kind of establishment and year	Firms	Establishments	Employment 1/	Payroll ($1,000) First quarter	Payroll ($1,000) Annual
All foreign-owned firms:					
1975 2/	39	123	7,111	14,497	57,340
1976	42	138	7,729	17,809	70,894
Manufacturing:					
1975	...	8	560	...	8,062
1976	...	7	578	...	8,746
Nonmanufacturing:					
1975	...	115	6,551	...	49,278
1976	...	131	7,151	...	62,148

1/ For week containing March 12.

2/ Based on preliminary 1975 data for all multi-establishment firms with 50 or more employees in Hawaii, these foreign-owned firms accounted for 3.2 percent of the establishments, 5.6 percent of the employment, and 4.5 percent of the annual payroll.

Source: U.S. Bureau of the Census, Selected Characteristics of Foreign-Owned U.S. Firms: 1975-1976, Series FOF, No. 1 (November 1978), tables 6, 7, and 9.

Table 557.-- FOREIGN DIRECT INVESTMENT IN HAWAII, BY COUNTRY AND INDUSTRY: 1976

Country and industry	Number of investors	Assets ($1,000)	Gross income ($1,000)	Number of employees	Wages ($1,000)
Total	399	1,757,861	617,961	13,897	130,502
Country:					
Australia	21	20,153	3,644	219	(D)
Canada	53	76,962	37,618	661	7,222
Hong Kong	41	172,566	93,954	2,050	23,329
Indonesia	3	244,490	18,934	(D)	(D)
Japan	234	1,166,523	251,937	9,085	76,916
Netherlands	2	15,850	92,226	(D)	(D)
Netherlands Antilles	2	27,730	108,261	(D)	(D)
Other countries	43	33,587	11,387	(D)	(D)
Industry:					
Wholesale trade	58	55,559	166,844	742	10,103
Retail trade	63	74,975	170,499	(D)	(D)
Banking	5	869,504	59,568	1,236	12,866
Real estate	118	223,994	21,314	242	3,071
Hotels	22	285,807	85,321	5,231	39,577
Other industries	133	248,022	114,415	(D)	(D)

D Figure withheld to avoid disclosure of information on individual firms.

Source: U.S. Department of Commerce, Office of Foreign Investment in the United States, and Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Foreign Investment in Hawaii (December 1979), pp. 57-58.

Table 558.-- AGRICULTURAL LAND HOLDINGS OF FOREIGN OWNERS: FEBRUARY 1, 1979

Subject	Amount
Privately owned agricultural land (1,000 acres)	1,992
Foreign-owned agricultural land (acres)	47,938
Percent foreign-owned 1/	2.4

1/ The percent for Hawaii ranked second among the 50 States, exceeded only by Maine (5.1 percent) and well above the national average (0.5 percent).

Source: U.S. Department of Agriculture, Economics and Statistics Services, Foreign Ownership of U.S. Agricultural Land, February 1, 1979 Through December 31, 1980, Agriculture Information Bulletin No. 448 (July 1981), p. 9.

Table 559.-- HOTEL ROOMS, BY LOCATION OF OWNERS AND SIZE OF HOTEL: JULY 1978

Location of hotel owners 1/	All hotel rooms	Rooms in hotels with -- 1 to 99 rooms	100 or more rooms
All owners	39,782	3,177	36,605
Hawaii	21,895	2,175	19,720
Mainland U.S.	9,506	432	9,074
Japan	6,778	155	6,623
Canada	476	158	318
Hong Kong	430	60	370
Korea	300	-	300
Taiwan	200	-	200
Unknown	197	197	-

1/ For corporations or huis, refers to location of headquarters.

Source: First Hawaiian Bank, Research Division, "Hotel Ownership in Hawaii," Economic Indicators, September 1978, and records.

Table 560.-- FOREIGN INVESTMENTS IN HAWAII: 1959 TO JULY 1981

[In thousands of dollars. Estimates based on partial reporting.]

Subject	Amount
Cumulative total 1/	1,096,905
Year:	
1970 and earlier years	49,900
1971	6,000
1972	64,950
1973	156,600
1974	160,600
1975	22,100
1976	63,800
1977	31,900
1978	81,000
1979	292,770
1980	151,285
1981, to July	16,000
Country of investor:	
Australia	92,600
Canada	103,270
France	15,000
Hong Kong	119,715
Japan	705,850
Korea, South	9,500
Netherlands Antilles	10,570
Saudi Arabia	1,300
Taiwan	13,500
United Kingdom	25,600
Type of investment:	
Agriculture	55,100
Golf courses	17,300
Hotels 2/	465,500
Manufacturing	4,700
Real estate	416,040
Restaurants	9,450
Retailing	60,815
Science and education	47,500
Miscellaneous	20,500

1/ Excluding $333.4 million to be completed after July 1981.

2/ Hawaii had 25 foreign-owned hotels as of July 1981, with 10,333 units. Japanese owners accounted for 18 hotels and 8,672 units; Canadians, for 4 hotels with 782 units; and three other countries, for 3 hotels with 879 units.

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency (HISA), revised data supplied September 1981.

Table 561.-- BALANCE OF PAYMENTS: 1975 TO 1978

[In millions of dollars. Excludes capital movement items such as the flow of investment funds, deposits of financial institutions, loans and repayment of loans, securities, and currency.]

Category	1975	1976	1977	1978
EARNINGS BY HAWAII FROM OVERSEAS				
Total earnings	4,351	4,632	5,381	6,048
Commodity exports	616	481	569	632
Federal expenditures	1,979	2,186	2,381	2,559
Services performed	1,543	1,711	2,141	2,515
Return on overseas investments	213	254	290	342
EXPENDITURES BY HAWAII TO OVERSEAS				
Total expenditures	4,864	4,961	5,635	6,267
Commodity imports	2,558	2,671	3,025	3,370
Payments to Federal government	1,215	1,118	1,301	1,425
Services performed	779	827	929	1,041
Return on investments in Hawaii	312	345	380	431

Source: Bank of Hawaii, Hawaii 81, Annual Economic Review (August 1981), p. 44. Based on data from a variety of private and governmental sources, including published reports, interviews, answers to letters, and related procedures.

BIBLIOGRAPHY

This volume is the fifteenth in a series published by the Hawaii State Department of Planning and Economic Development and its predecessor agencies. The first was Statistical Abstract of Hawaii, 1962, issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled The State of Hawaii Data Book were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. Most of the volumes issued prior to the present edition are now out of print, but copies can be consulted in the DPED Library, Hawaii State Library, University of Hawaii and community college libraries, Honolulu Municipal Reference Library, and other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the Data Book, in footnotes and source references to the various tables, and in other DPED publications. Three of these DPED reports cover statistical sources in considerable detail: Statistics in Hawaii: 34 Papers Prepared for the Hawaii Statistical Reporting System Workshop, February 18-20, 1970, at Waikiki (1970), Proceedings of the Conference on Socio-Environmental Indicators, March 15-17, 1971, Honolulu, Hawaii (1971), and Inventory of Hawaii Planning Information (1973). The first two are reports of statistical symposia. The third is a 164-page reference work prepared for the Hawaii Urban Planning Information Center, containing detailed geographic and subject-matter indexes and source listings. These reports are now out of print, but copies can be consulted in most Hawaii libraries.

Although most of the series in the Data Book are shown only for recent years, earlier figures in many cases can be found in Historical Statistics of Hawaii, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century. Copies are available from the University Press and various book stores for $25.00.

Another useful publication is Statistical Sources in Hawaii: Reference Guide to Materials Available at the Hawaii State Library, compiled by Masae Gotanda and published by the Office of Library Services of the Hawaii State Department of Education in November 1978.

Privately published works of general statistical reference include Hawaii Facts and Figures and All About Business in Hawaii. Hawaii Facts and Figures is a publication of the Chamber of Commerce of Hawaii, first issued (under a different title) more than forty years ago. The most recent edition appeared early in 1981, with statistics through 1980; copies are available from the Chamber for $2.00. All About Business in Hawaii, 1981 Edition, is the ninth in an annual series published by Crossroads Press. The current edition costs $2.95.

Two other privately published reports containing useful statistics are the annual economic reviews of the two largest banks in the State. The current editions are Hawaii 81, published by the Bank of Hawaii in August 1981, and Hawaii in 1980, issued by the First Hawaiian Bank as a supplement to its monthly Economic Indicators for April 1981. Greater detail appears in Hawaii's Economic Indicators: Sources, Definitions, and Trends, published by the First Hawaiian Bank in March 1980.

The County of Hawaii, Department of Research and Development, has published its own County of Hawaii Data Book 1980, presenting 264 pages of statistics for the Big Island. This report, dated December 1980, is available for $7.50 (postpaid, $10.00).

A similar report for Kauai, County of Kauai's Statistical Review: An Annual Report of the County's Economic Indicators, is issued by the Kauai Office of Economic Development. The most recent edition, presenting data for 1979, was released in May 1980 and contains 15 pages of tables.

Persons interested in comparisons between Hawaii and other States or the nation as a whole should consult the Statistical Abstract of the United States and its companion volumes, the State and Metropolitan Area Data Book and County and City Data Book. The Abstract is an annual publication of the U.S. Bureau of the Census, initiated in 1878. The current edition is the 101st, dated 1980; copies are available for $13.00 (cloth) or $10.00 (paper) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The State and Metropolitan Area Data Book, 1979, also issued by GPO, costs $12.00. The County and City Data Book, most recently issued for 1977, is sold by the same agency for $19.50. All three volumes are on the shelves of most libraries.

Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK: 1962 TO 1980

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 1/	128	243	1.00	1.00	(NA)	(NA)
1967	66	95	(NA)	(NA)	1,969.45	3,000
1968	69	99	1.00	1.00	2,969.20	3,000
1970	136	135	1.00	1.00	2,470.92	2,030
1971	159	152	2.00	2.00	4,149.60	2,000
1972 2/	227	210	4.00	5.00	6,245.00	3,000
1973	290	261	4.00	5.00	6,309.00	1,500
1974	306	291	4.00	5.00	9,330.00	2,000
1975	302	308	4.00	5.00	10,222.95	2,000
1976	312	334	4.00	5.00	9,901.13	2,000
1977	339	372	4.00	5.00	11,990.00	2,000
1978	379	422	4.00	5.00	8,900.00	2,000
1979	405	447	4.00	5.00	10,744.00	2,500
1980	546	496	5.00	10.00	12,335.00	2,500

NA Not available.

1/ The 1962 edition was titled Statistical Abstract of Hawaii, 1962. In addition, a 41-page, 57-table supplement, Historical Statistics of Hawaii, 1778-1962, was published and distributed without extra charge to persons receiving the regular edition.

2/ A 19-page supplement, State of Hawaii Census Tract Maps and Directory of Hawaii Map Sources, was included with each copy of the regular edition, and was not sold separately.

Source: DPED records.

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